

7530-00-222-3521  
FEDERAL SUPPLY SERVICE  
(GPO)



E. S. Morton  
National Zoological Park  
Washington DC 20008

202-673-4828

30 May - 6 June

~~June~~ 13 - 21 June

Inst. Grant by  
7 July

July 7-12

July 21-26

Aug 5-10



0 banded 3 young from nest nr Holt House  
on May 4 - self-fledging age ca 12 days  
old.

Tape recorded pizets & wheezes on 6 May.

11 May - took 3 young from Bangerter's nest -  
ca. 10 days old.

May 12:

The 1st set of young (Holt House or HH)  
are now nearly fully feathered, tails nearly  
grown out & are active exploring and  
flying & hopping agilely. I banded one  
yellow right that I heard subwinging  
last Sunday morning when I had them  
at home. I have not heard any since.

Finished the PB tape w/ 70 Flax Wd songs  
plus the Heron Dxl imitation of Hlow Pine  
Warbler and the Mexican Towhee imitation.

May 18 - 2 of the Holt House wrens are  
subwinging! Red & yellow band -  
Red began Sunday (17th) at the same time  
he refused to take food from forceps &  
became much more timid!



this began with Red on Friday the 15th -  
he feeds himself - while the other two  
still beg for food even though able to  
self-feed. Red seemed a day younger  
than the others but did not seem shier  
while a dependent fledgling than  
the others - the reverse of anything.  
These are ca 26 days old now.

The other 3 young from Baugerts are fine  
but no subsong yet - still give  
loud pyee-ty + food begging yees  
Have kept them in small cage

Am now regging the final tape.

May 19 Finished P B Tape!

One bird from 2nd Brood subsong  
in Am.

May 20 Placed yellow + unbanded ♂ from  
1st brood in isolation chambers, transferred  
the ♀ from brood 1 to B4 large flight, + the 3  
young of brood 2 to the wire cage where  
brood 1 was previously.

Banded 1 brown ♂ from brood 2 Red/white  
another blue.

"Her" in chamber 3 released at HR  
on 20 Aug 81 - banded Y/R right

"Whimp" in chamber 1 released at HR  
on 20 Aug 81 - banded as before R/W  
left leg.

Redhead (chamber 4) placed in room 134  
w unbanded ♀ - he was banded pink left  
was ad undertail coverts.

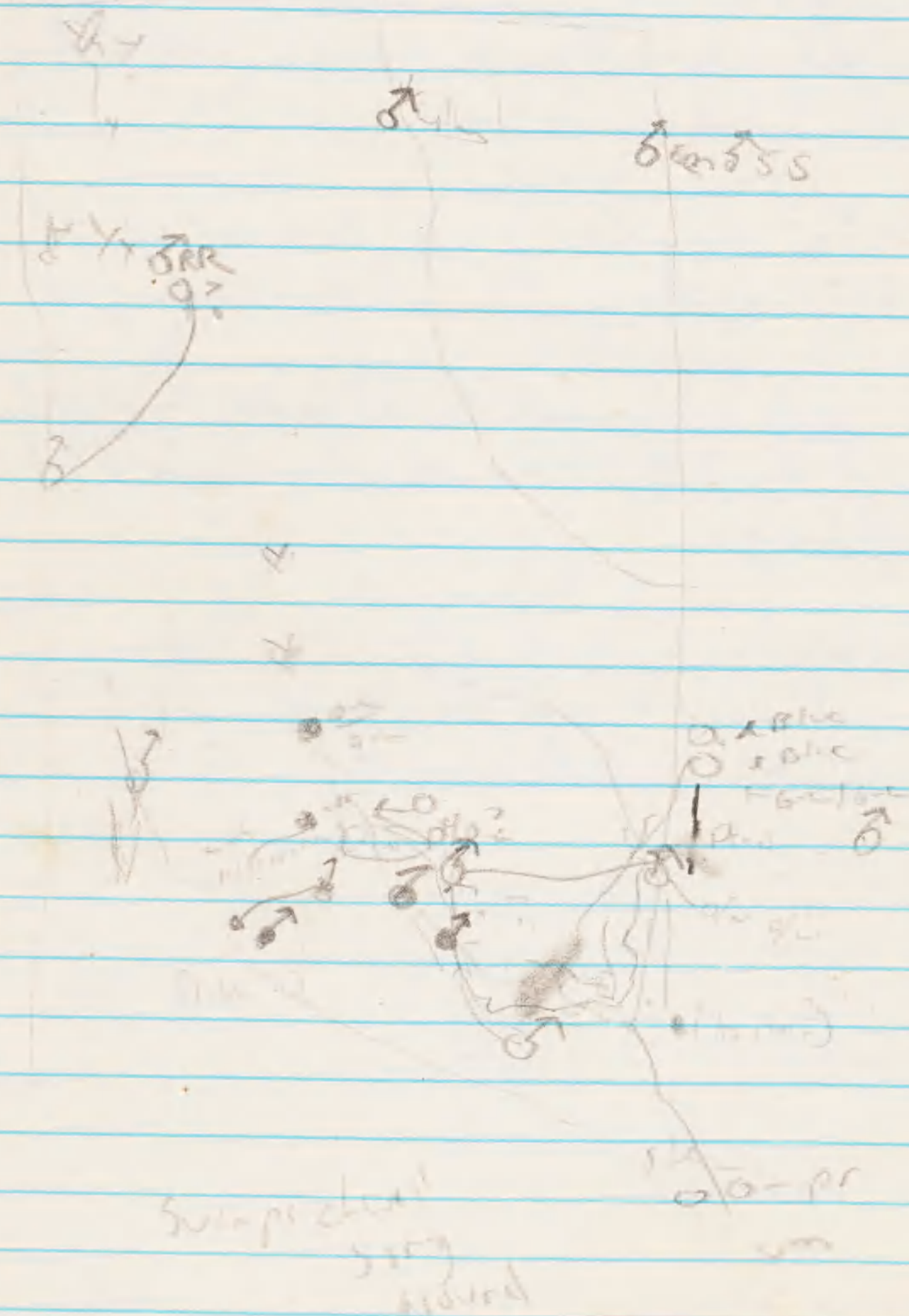
Both birds (young of 4) remained in outer  
cage - Redhead not doing well w company  
in this age (2 days 9 time) ♀? gave 4  
banded orange right



Pennsylvania  
March

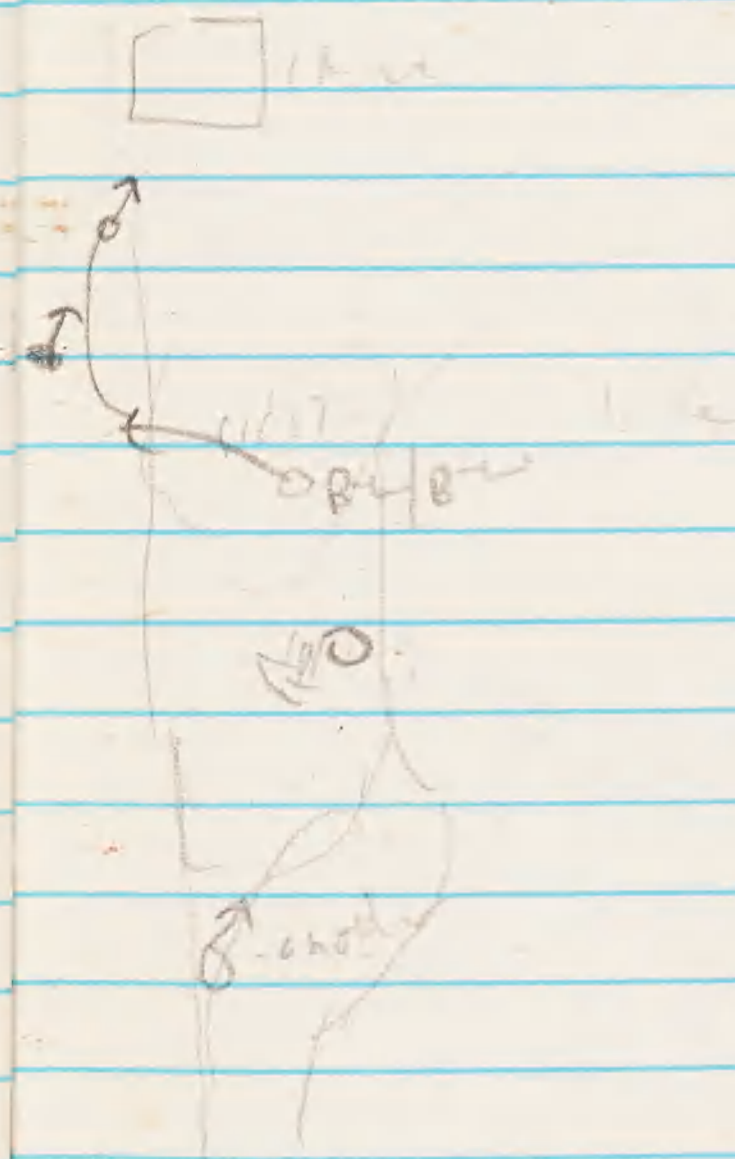
Apr. 13 1886 7:30

(cont.)  
Field 1



♀ Swamp carrying nesting  
material

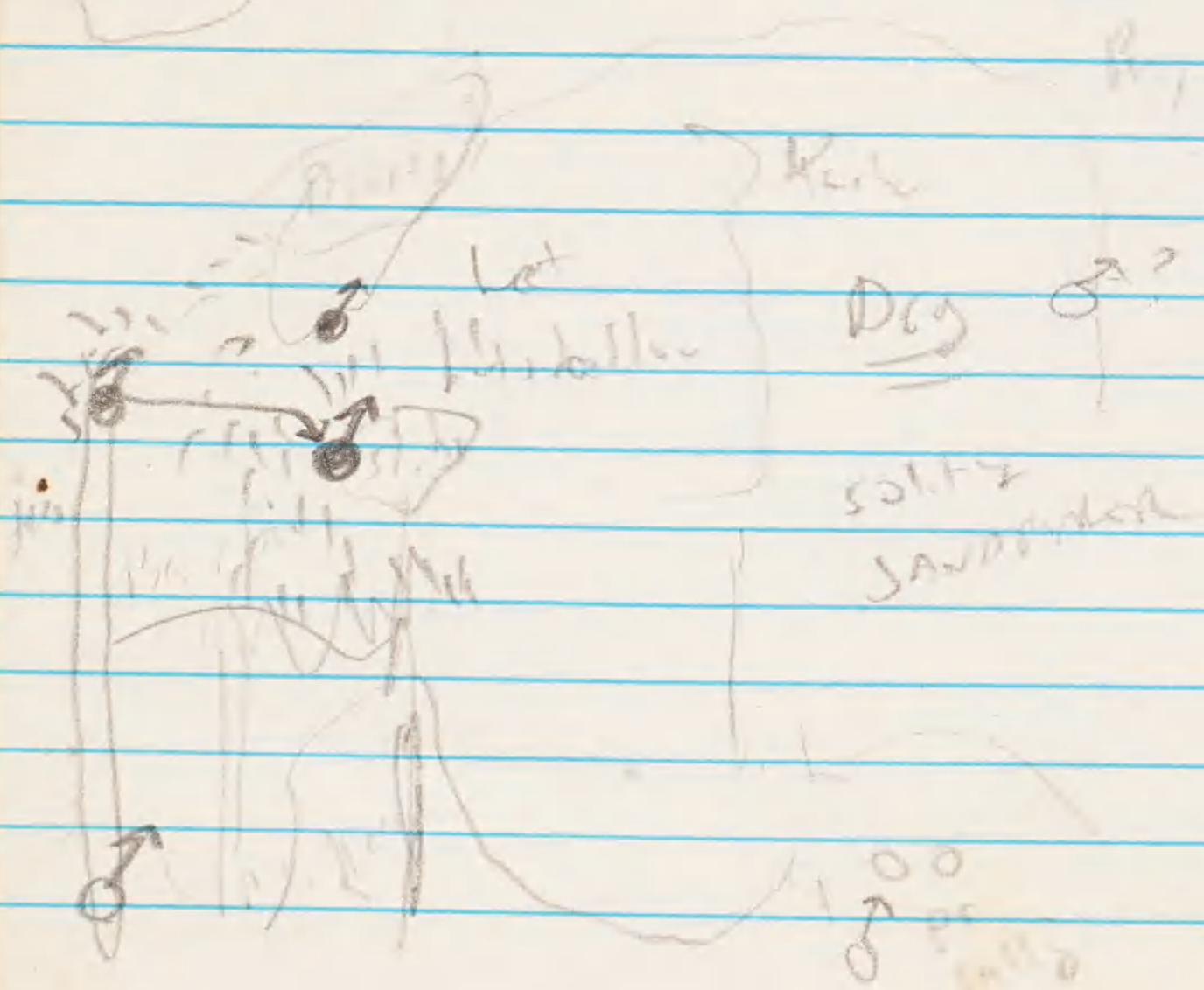
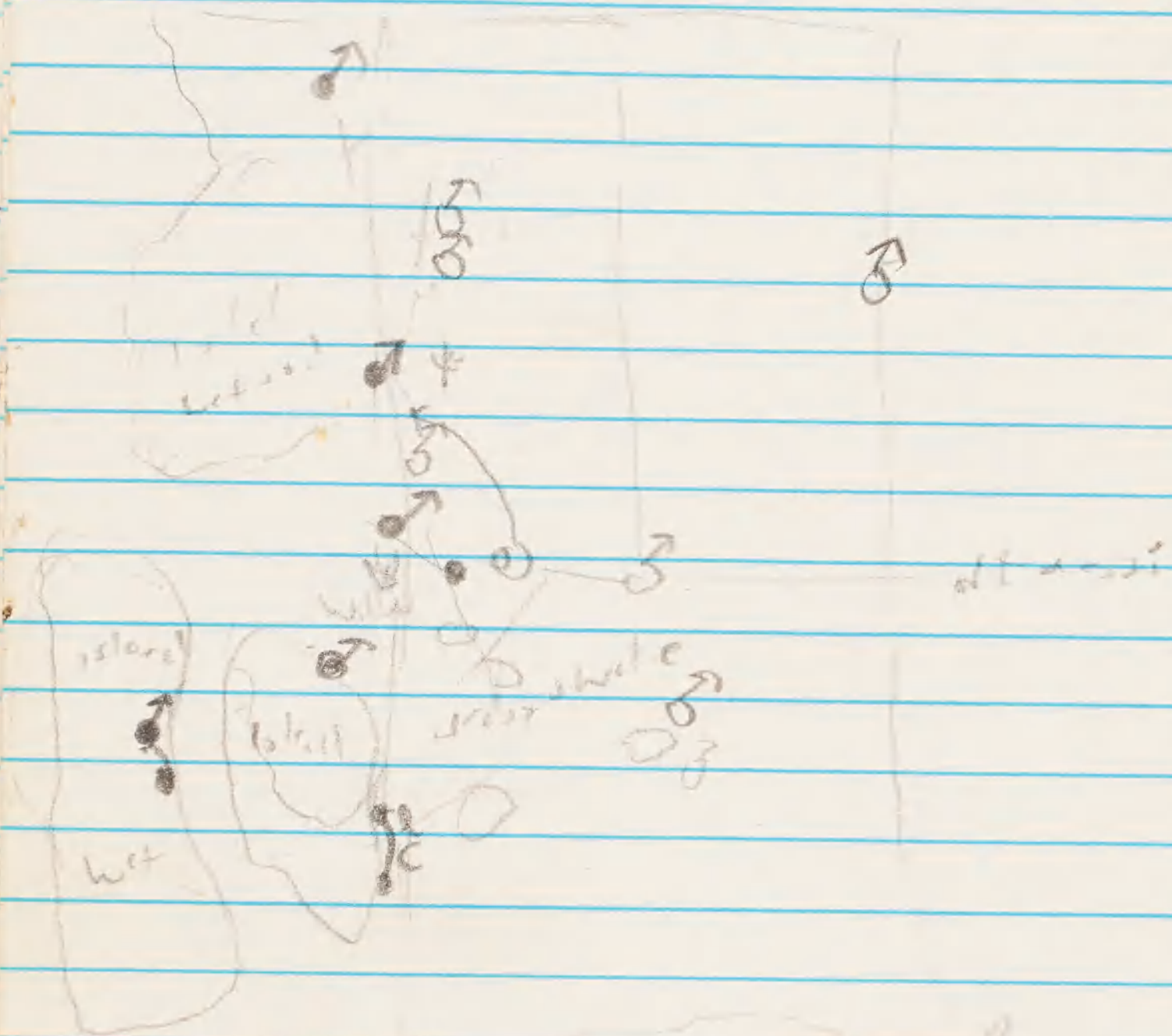
Note G-W/O-L-S song sp. No  
is showing  
in blue swamp  
I saw one extended  
series of (2-1-1-1)





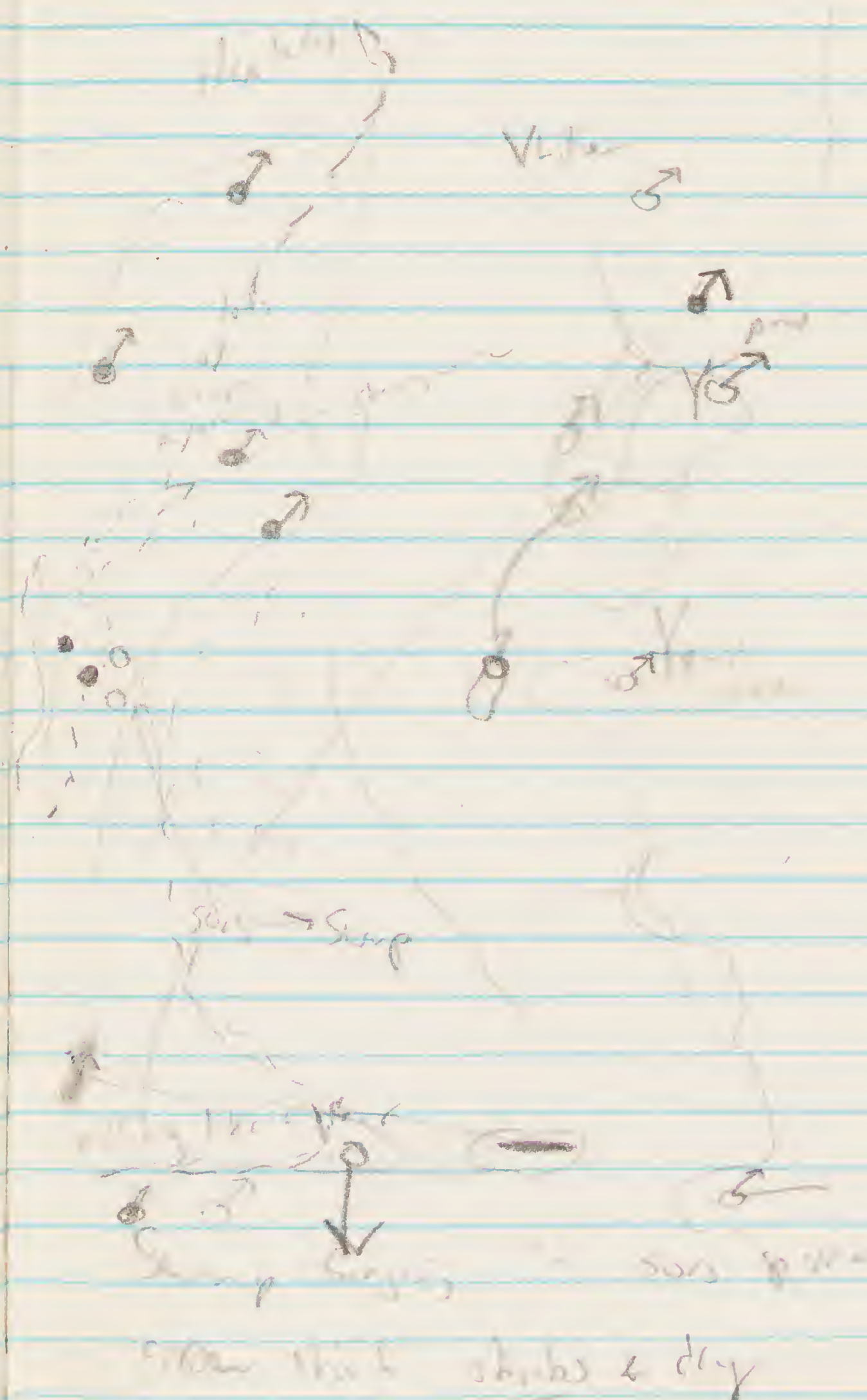
Pond area is very dry  
much dryer than last week

little prong activity





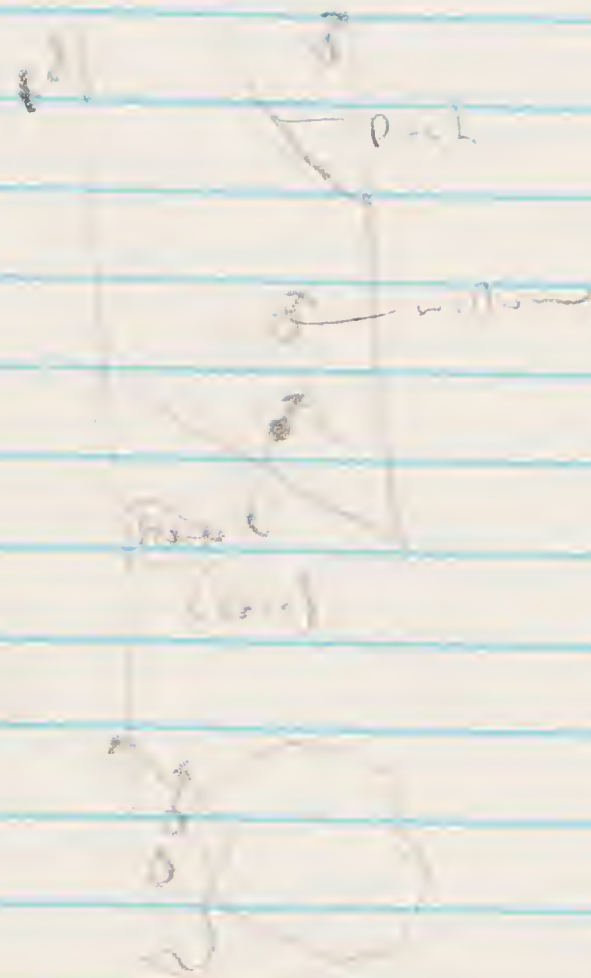
Bong Lee Rd



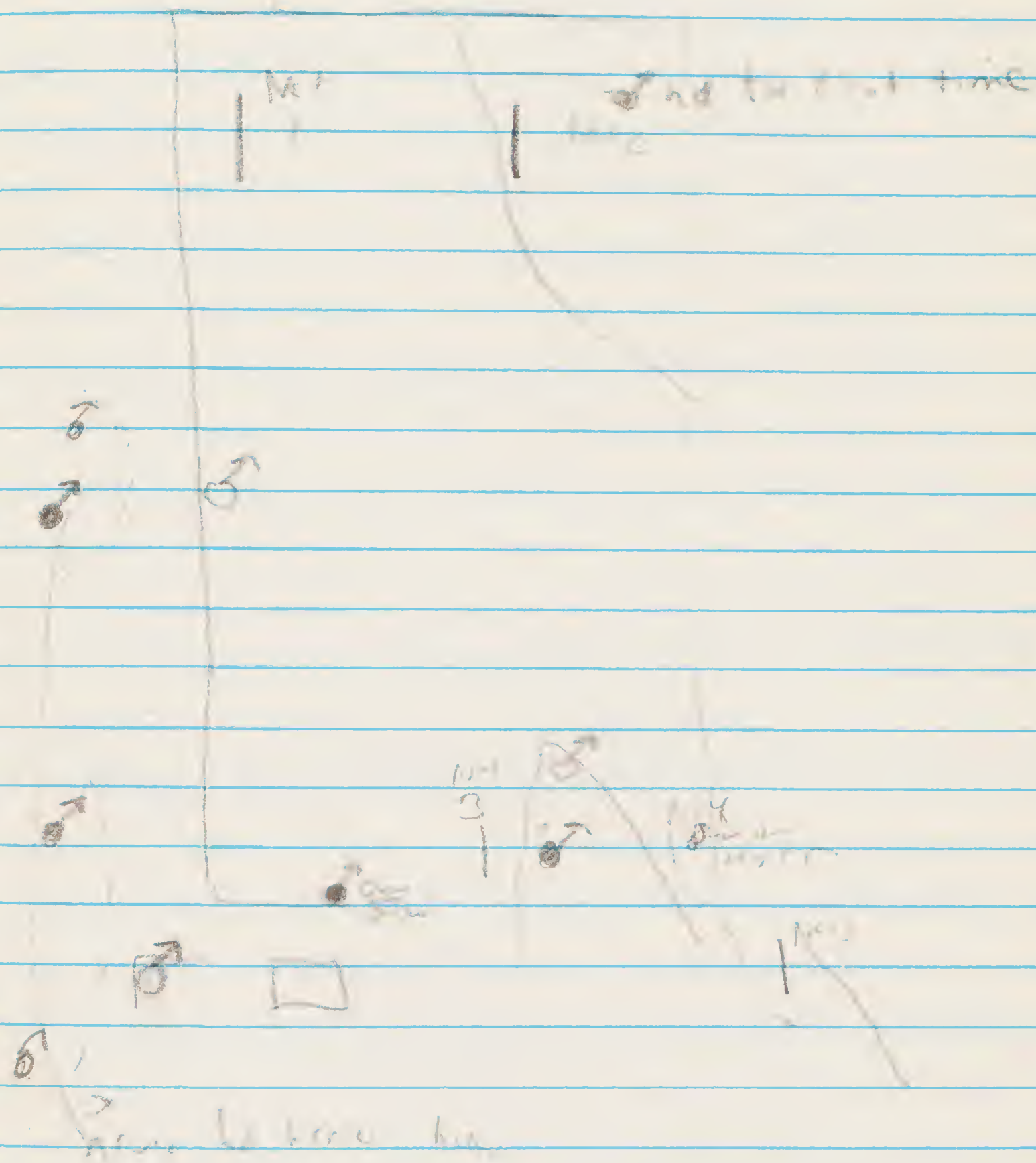


the same place

Fig.



1 May. Birding in Field 1  
6-10:30 am



16

7



Note a of the bird song  
behind the on background  
for 2 days

6.08

7.2

P-PRAP song a w/low of repeated

Long song ♂ P-PRAP sp. 10 min  
Net 5

Long song 10 min Net 6

(E) 1

P-PR song a w/low Net 3  
E=2

Emitted getting into each  
P-PR song

feet 2

Song P-PR/66 379 E=1  
Net 2 64 min

Song 1 crown Blue/Blue 10 min  
66380  
Net 3 64 min

Song Net 15 1g/esc 66 321  
64 min 21g E=3

lost song 10 min 1 lost song 10 min



May 1 (afternoon) 2:30 -

Net 10 Song Sparrow 227  
62 mm

W-L 66-392

with egg lower

place where nest was

being built yesterday

found it

New net

Feb 2

	1/8
1/10	1/9
1/11	
1/12	

Red Red 3<sup>rd</sup> - Red 18 - W 3

lighter in color of in some

(A



Net 11

- Song Sparrow

Black 66

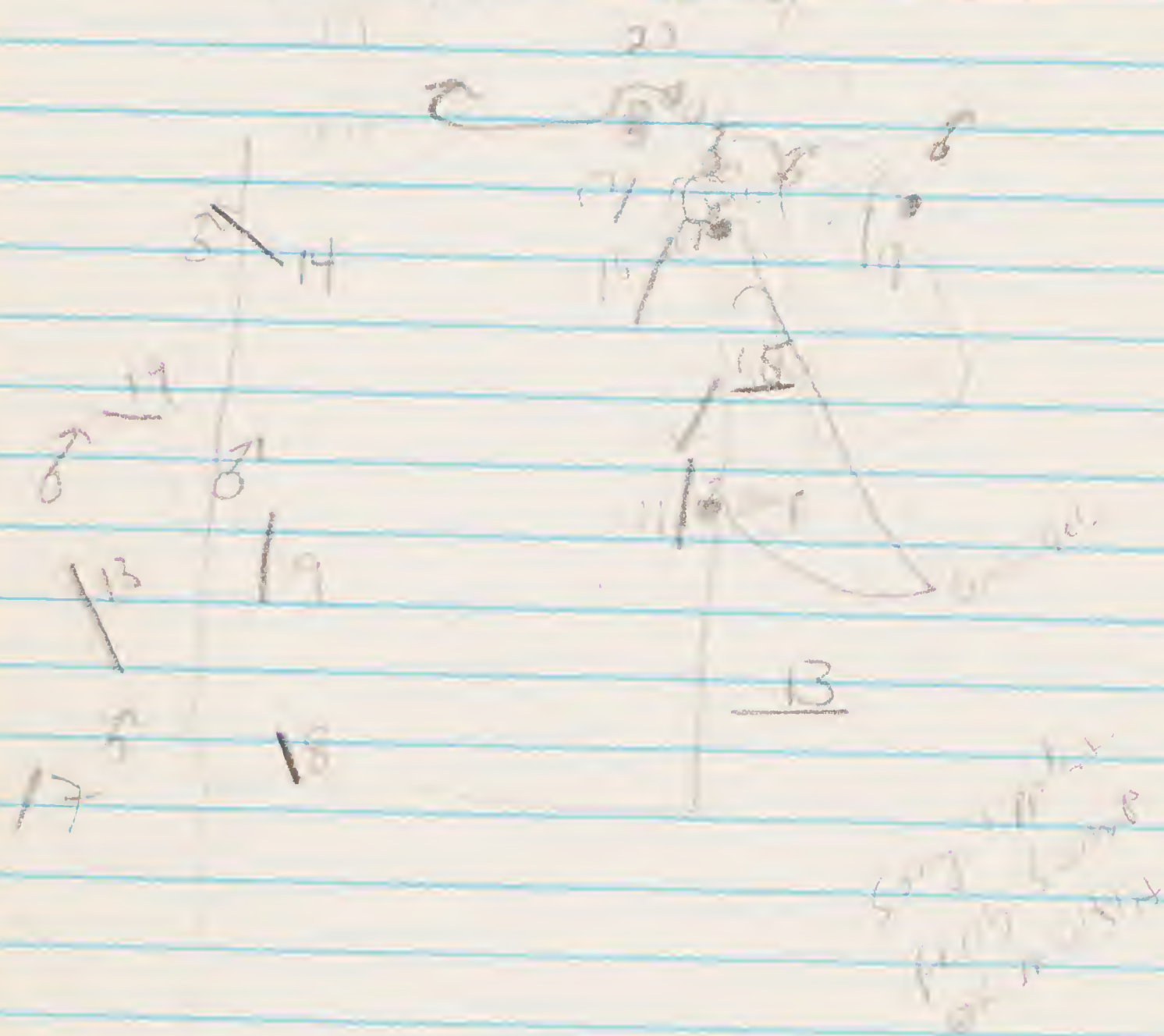
383

4/11/12 68 mm 6cp

Red Red 3<sup>rd</sup> - Red 18 - W 3



May 3 10:41 when leaving  
 Netting Field 2, ...

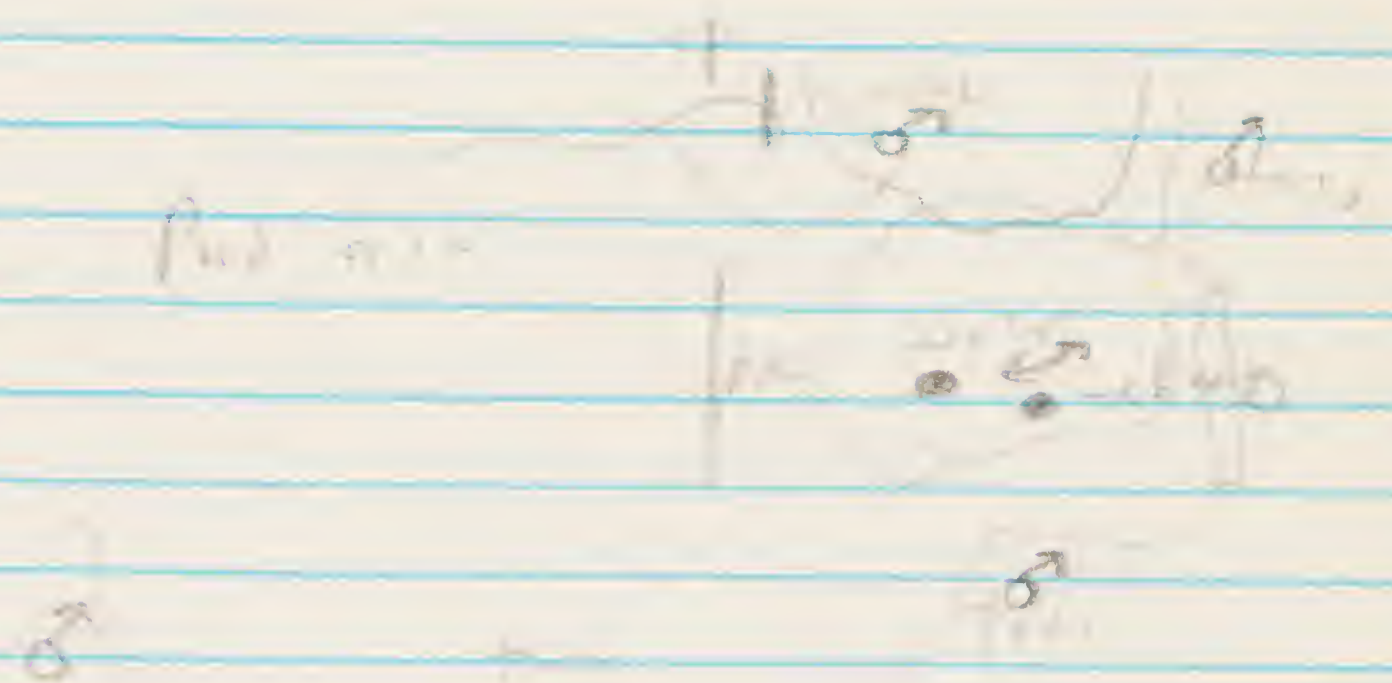


Swamp

41 crows 5:10  
 62 min  
 1/2 hr  
 2 hr 30 min

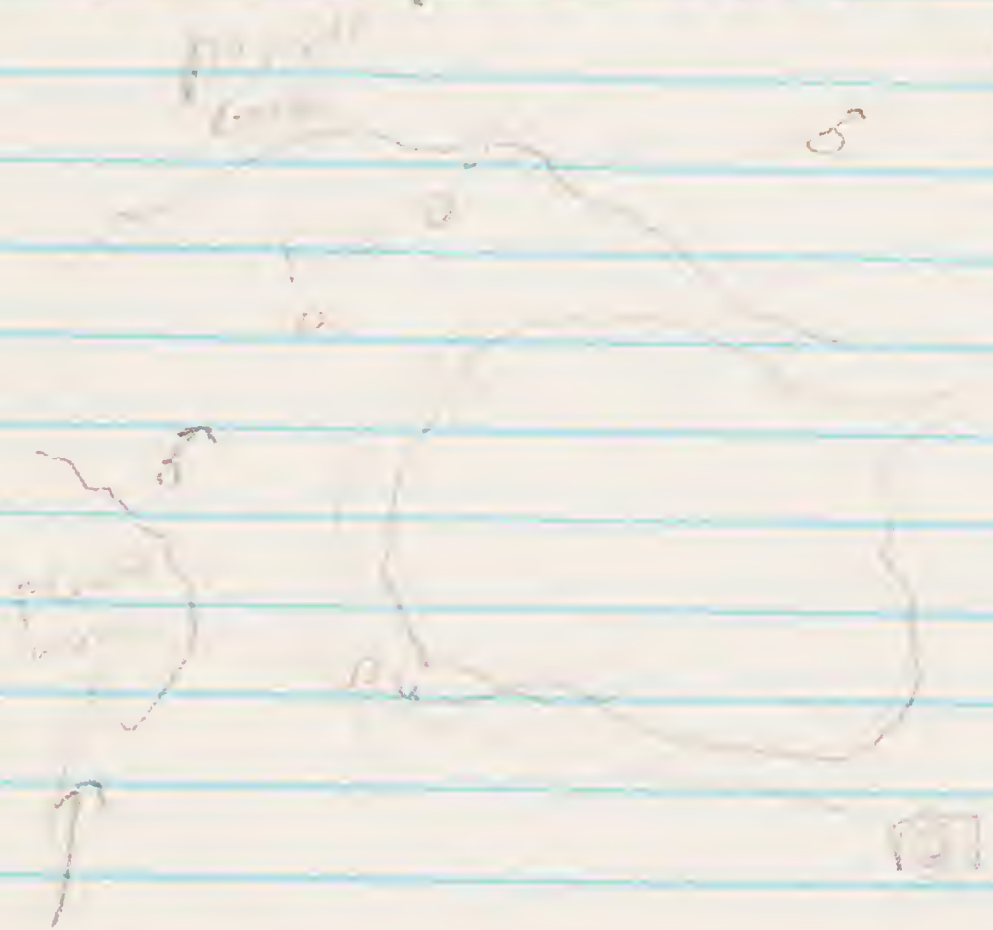
rand to 1 little wear

Net 11





Atkinson - captured bird



from the 1st stage of the  
wing

today was much too busy

to have to do it all

Tomorrow

May 4

Surg 5 cp Net 11 14 mm

0-0

19

6/35

19

Surg 15 13 Surg BW/BW 100

Surg 15

BW/BW

15

15

15

15

15

15

15

Surg Net 16 95

6/35 676

15

15



1. one of



Swamp Net 13a 3 crown  
pale blue

50mm wing

18g

W-W 06 394

Song (by crop) ~~Swamp~~ v/s a/d

30

68mm 23.1g  
Rarest

Sig

Blackish/brown - white/blackish

\*

rec. right in

bird pond net

Must be a (10.1)

May 4 11:00pm

Sample 14 3113 sparrow, 1111

good catch - last 10m free

2.2cm fly

1cm cerphid

2 x 1cm elaterid

2 x 4mm long

9mm hirt 9mm trid

2 x 5mm fly

4m spider 5m spider

10.1

4m spider 4mm  
Terns mecid

3 x 3m spider

10.1

6m spider

9.4

5m spider

11.7

11.7

9.8

7.2



Sample 15

Swamp spruce #1

7.4

7.8

8.1

8.2

9

8.4

Wt = .151

Insert sample loaded  
with emerging diptera

12cm grasshopper

8mm fly

8mm fly

8mm fly

5mm fly

1cm fly

7mm beetle

1cm spider

2mm spider

5mm fly

4mm beetle

4mm beetle

5mm fly

4mm beetle

5mm beetle

4mm fly

5mm beetle

4mm spider

4mm fly

4mm fly

4mm fly

4mm fly

4mm spider

8mm spider

4mm fly

4mm beetle

4mm beetle

4mm fly

4mm spider

4mm fly

4mm fly

Sample 16 (Swamp)

12.9

12.2

12.2

12.4

11.7

11.1

2x 1cm fly

3mm housefly

7mm housefly

1.1

1.9 + ↑  
2.0  
check

2x 1cm + 1cm beetle  
3mm 2 + 1.2cm  
beetle 1.5cm  
fly

6x 8mm fly  
1.5mm fly

2

Sample 17

Swamp 2

7.4

6.4

7.4

8.4

8.2

0.38

3x 4mm fly

8mm spider

8mm beetle

2 4mm beetle

5x 3mm beetle

4mm beetle



9.11 = 20°

18 Sarg (Field 2)

8.4

10.2

11.9

8.4

7.6

11.1

.04

3 + 1.5 cm etc  
R. m. l. etc

4 mm 2.1  
5 mm 1.1  
4 mm fly

19 Swamp (Forest)

90% Sept

8.9

7.3

1 cm bee

2.11 little  
flies

8.8

8.2

8 mm bee

8.9

8.2

8 mm bee  
8 mm beetle  
4 mm fly

= .025

May 4 pm 3.30

Swamp Net 13 3 crown

0-0 66

5

rounded tail

59 mm

20.5 g

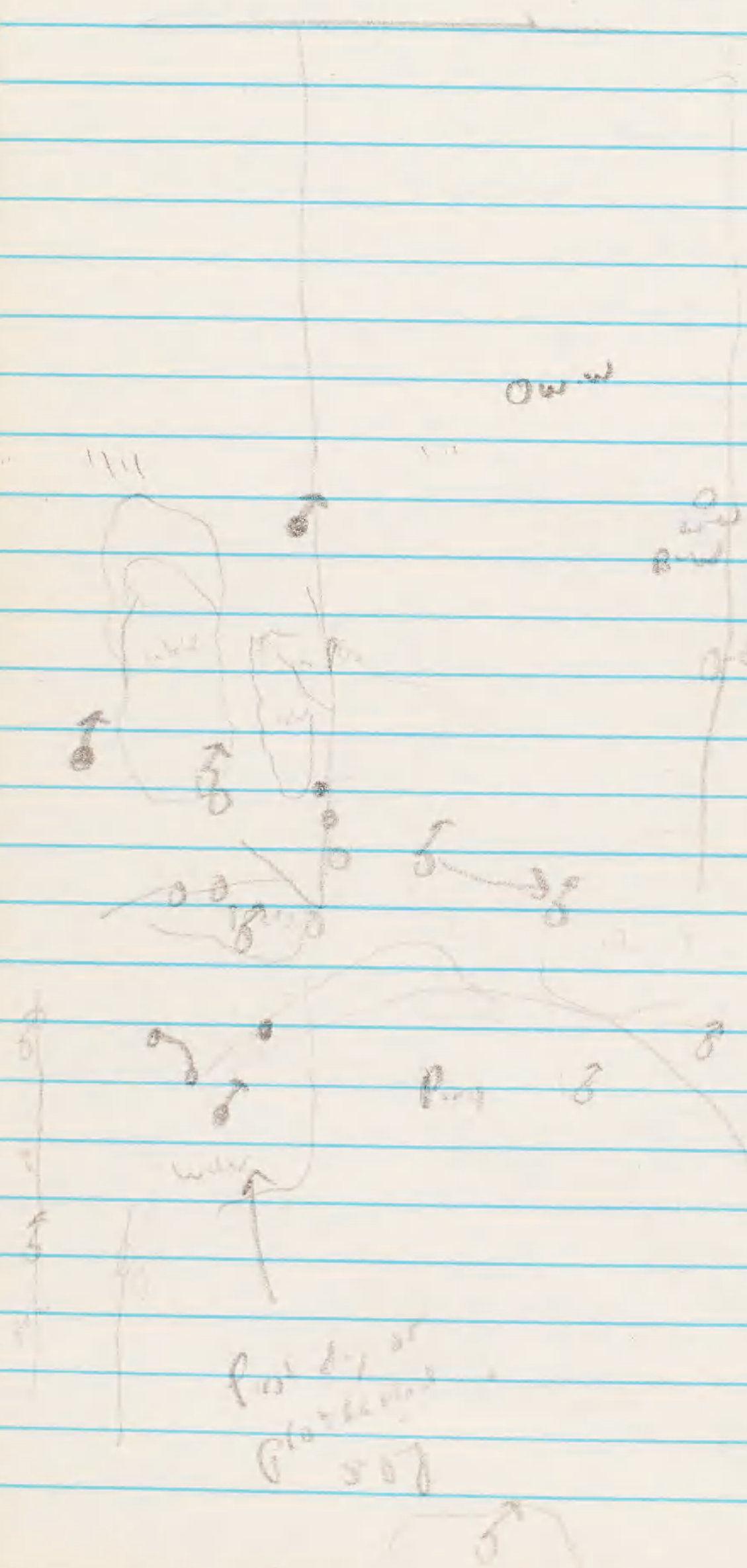
Net 18

rounded  
net 3



May 4-

Field 2 Notes



Ow-w

O-o

O-w  
O-w

O-b

P-o  
P-o

Foot of  
Plover  
507

May 5 Banding

Net 18 Swamp Sparrow

→ New meter bird size #10

~~G-R/G-R~~  
w-b L-b

Narrow tail

Y-Crown



Narrow tail

Ng

6 mm

wing

Net 20

Swamp 4+

gro  
faded  
faded

Ng

6 mm

G-R/G-R 66-11

Net 21

Swamp 2

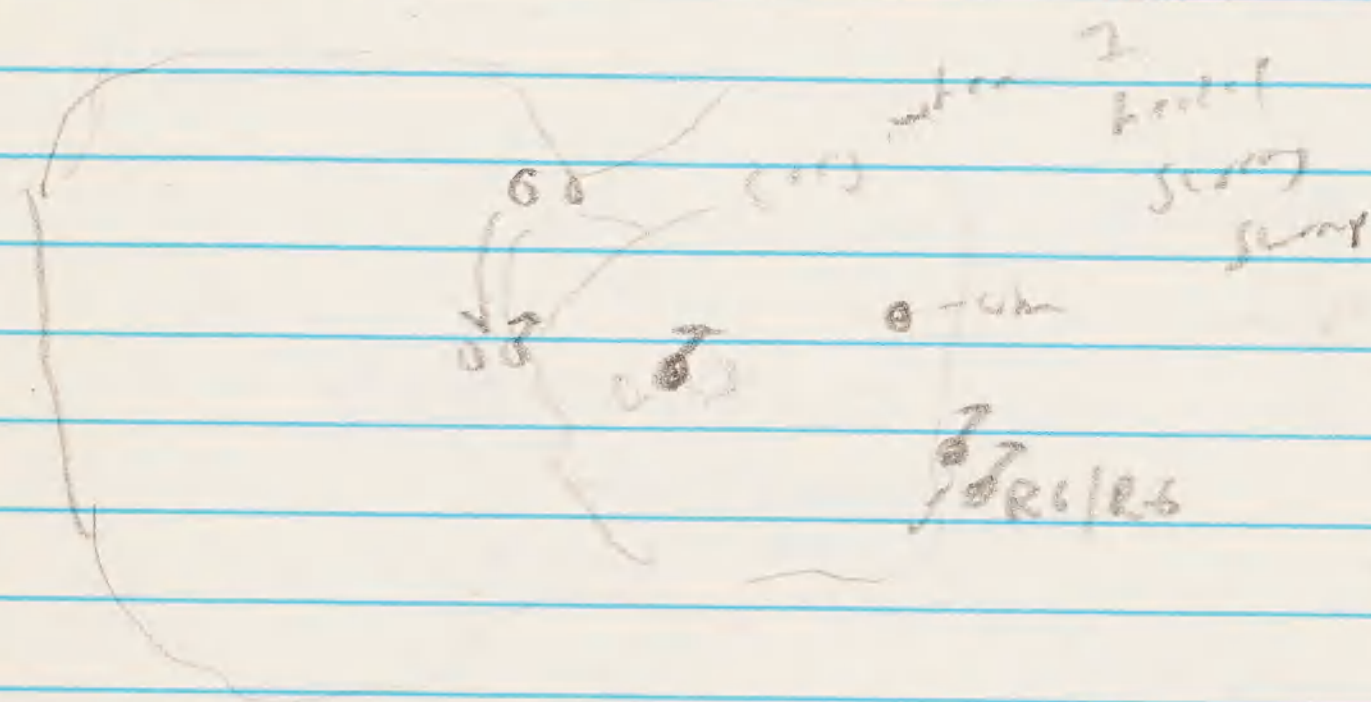
brood patch

P-pl 66-2

5 mm



Notes



Swamp

~~Swamp~~ 10-15-6:10p  
at nest 18 45m  
the capture

Song marking (huh?)  
at nest or finally  
(sing) scale

Swamp R-6 R-6 10p nest  
20

Swamp nest 20 2 crows  
ro-uh-di-1  
y-r/4-p 6613  
58mm wing fat



May 5 insects

Simple 20 - Song Sparrow 1cm?

leaving by camp

leaving at small house

leaving

2x 4mm hump

1cm fly

3x 4mm hump

4x 3mm beetle

4x 3mm spider

1cm fly

2x 5mm hump

4mm beetle

2 5mm spider

~~0.035~~ .0015

.0015

.0010

.050

.010

Simple 21 Swamp Sparrow in field 2

3x 3mm spider

grass

5mm

(1)

unfly

22

2x 3mm hump

4mm hump

4mm hump

5x 3mm beetle

8mm beetle

4x 3mm fly

1cm el. w

1.2 fly

4mm spider 2

3x 3mm spider

3mm hump

23 5 p.p. (1)

4x 4mm

fly

3x 3mm

4x 4mm beetle

10 5mm fly, but

7 3mm hump

1x 1.2 cm elaterid

5mm spider

6mm fly

4mm hump

Brown D.

.14? (see song 16)

25 Song Sparrow Band

1cm hump

.0035

6x 5mm m. d.

7mm fly

1mm spider

.024

unm = song 16

1.2 cm elaterid

1 cm el. w. p. 16

8mm elaterid

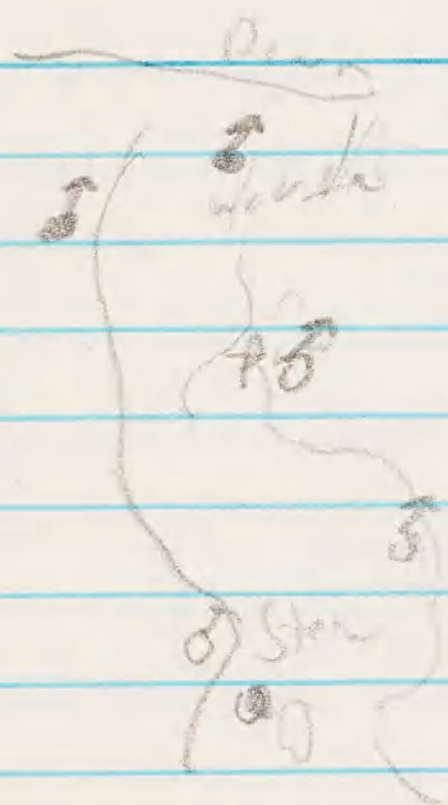
3x 4mm

hump

4x 4mm m. d.

4mm





Brown lake is much drier

area on S. side of  
rock that

was last a bed

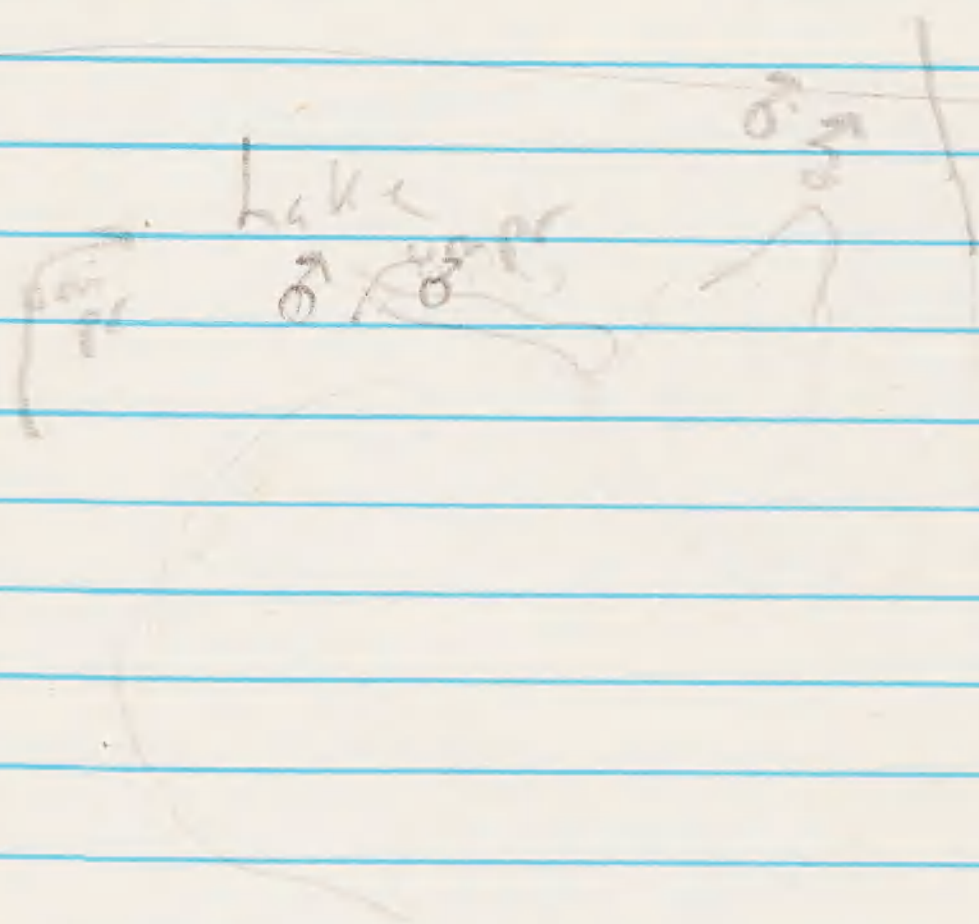
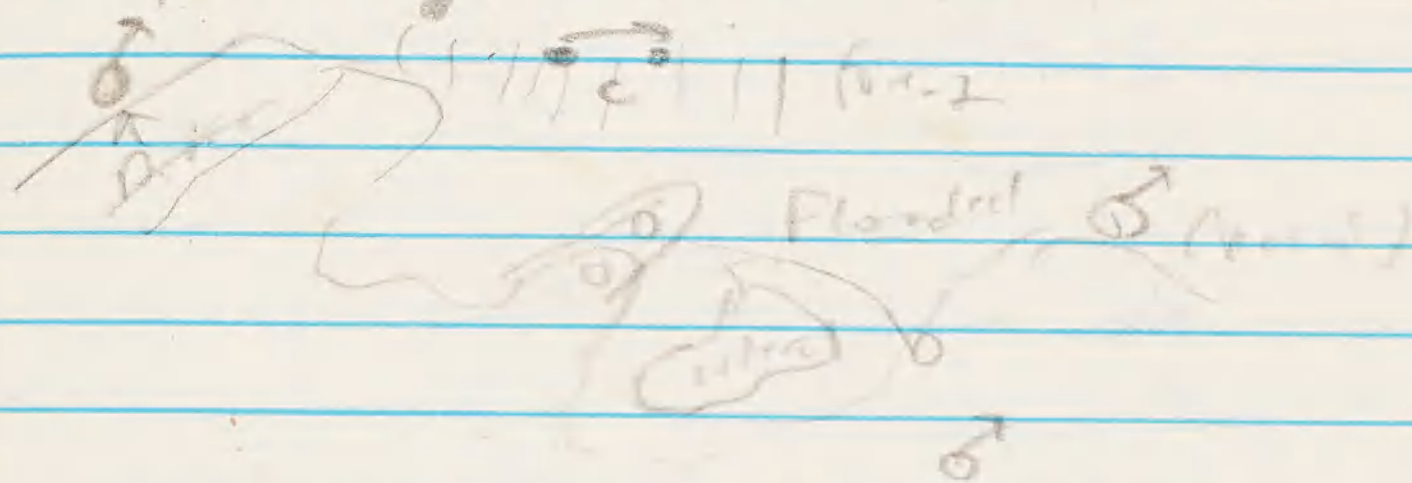
2-3 long branches

in dry now

May 6 800-

Cloudy & rainy  
conducted a census

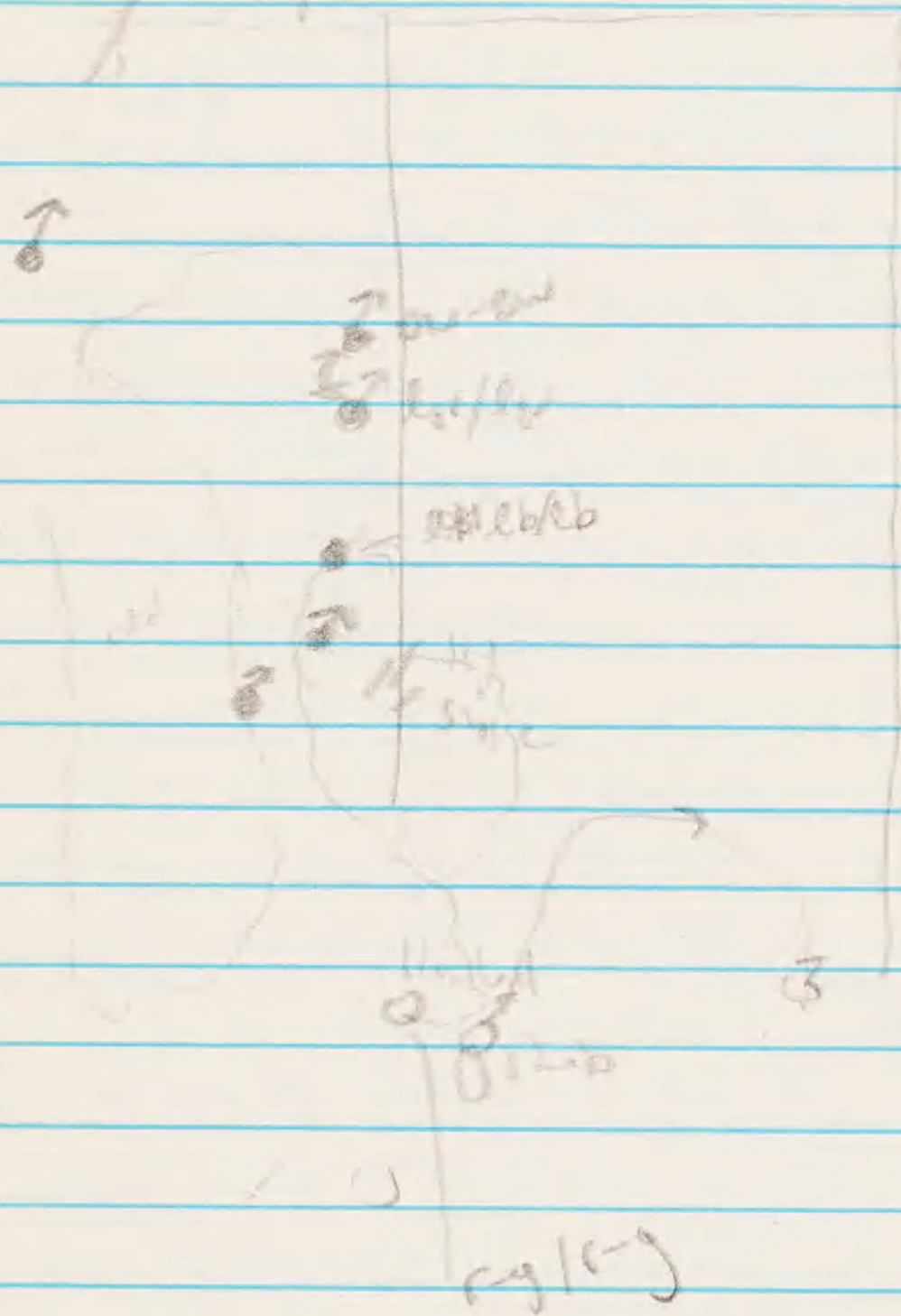
New area behind pond



Survey all 2 ponds (5-6 hr)

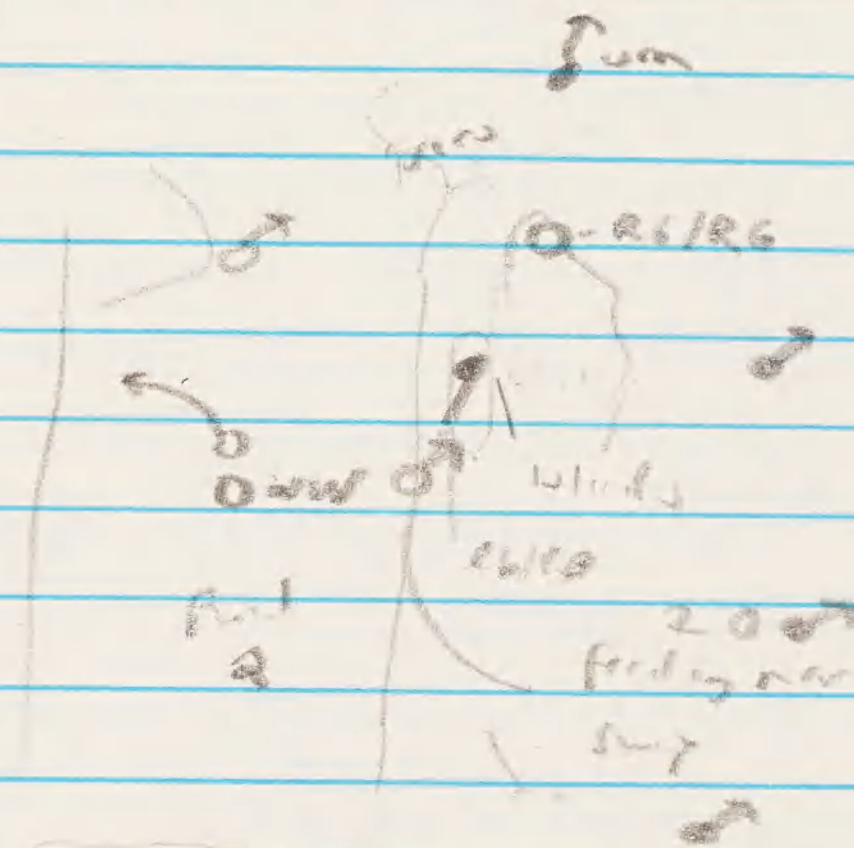


5/6



Lot of chrysothrix  
Sandy spores

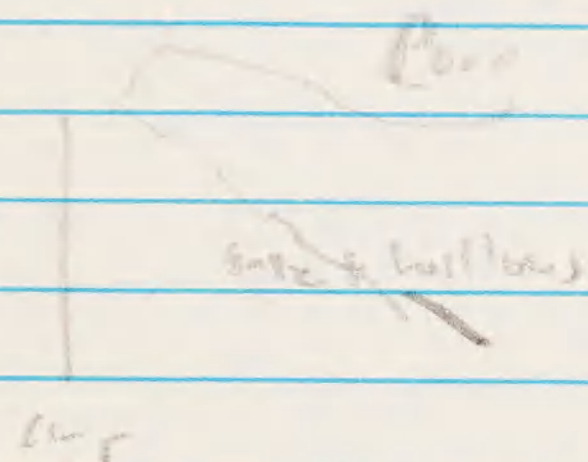
May 8 7-8:30 pm  
clear + calm





Netting May 9 6-1330

Net by pond



Song BL/BL 66 356  
62 mm  
narrow

255g

Song behind dry pond  
r-b/r-b 357  
rounded

Song behind dry pond  
BL/R 66 147

rounded  
67 mm

Song "Dry pond"  
"I crown" BL/BL  
66-15

harrow  
61 mm 215g

Song by pond wet  
W-R/P-6 66-16  
narrow?  
64 mm

24.2g

resighted  
5/14 same  
place

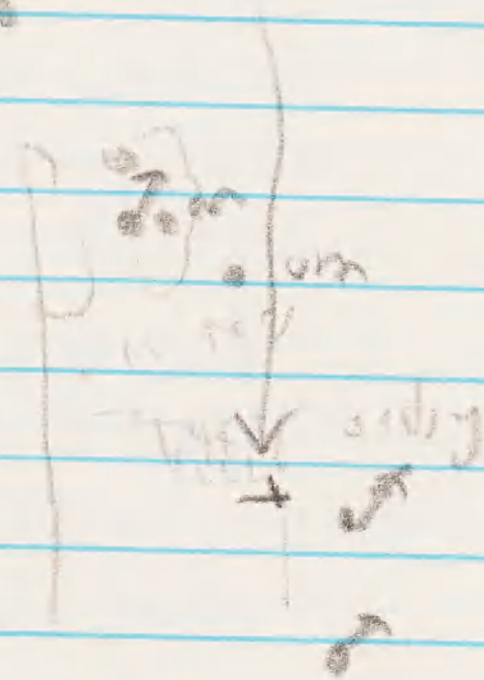
↑  
Song similar to above  
b-w/Pink 66 376  
61 mm narrow

17g

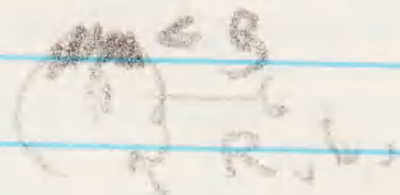


Net in wet area  
 at Big pond  
 caught 2 Swamp vms

BC in / W-L area  
 net



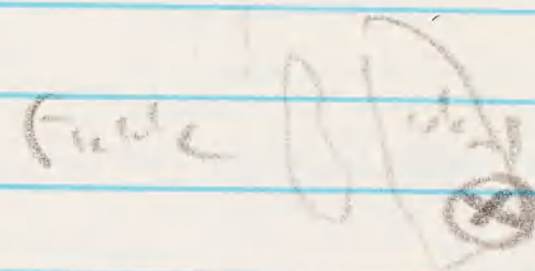
Swamp W-R / W-L 6618  
 4- crabs



bl. m. - 14 m/c

Swamp (Wire net) G-W/P 6619  
 51 mm  
 15.5g  
 ? tail 1+ crown

Swamp P-W/Red 6620



64 mm  
 4+ crown  
 15.5g  
 1+ crown  
 15.5g

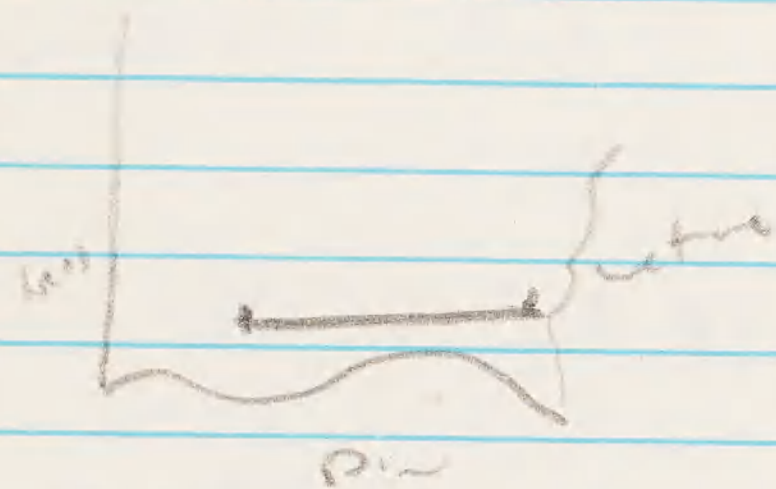
15.5g

P-W/Red caught at  
 Beaver Dam 1 to later



5 sparrows light cl

Brown Pinnit



4 Swaps + 1 Song

Strong 1st - 1st 90

Song W/P 66 17  
66 mm  
Round tail

Swap P/W 66 22  
64 mm  
Round?

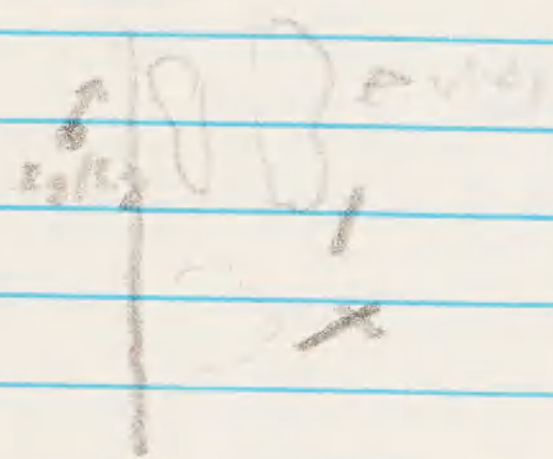
4 crown 4 feet

Swap L/O possibly round  
right leg 4 cm  
62 mm

Swap 18/24 23  
27 61 mm 4  
R.H. 18



Swamp (Swamp case)



G-W/BZ 66-25

4 crown (black spotting)  
(black tubercle)

62 mm enlarged clacra ↗

Swamp Blw Blw recap  
same nest

Swamp R6/R-b recap  
bro not up female returned

I attached Swamp &

Swamp with Swamp stream

3x one by Bower Pin

(one) at Field 2 &

on all 3 times both

species there in exactly

but no interaction seen

High Song & Swamp were

very close (Song Swam, q RO RO

& Swamp type 1st)

Swamps copied more to

distress call than to playback



only a couple of

Swampers showing

localization (W/B/22g)

W/B/22g - 4 in am

not at once indicators

lots of flow

so far

45 species

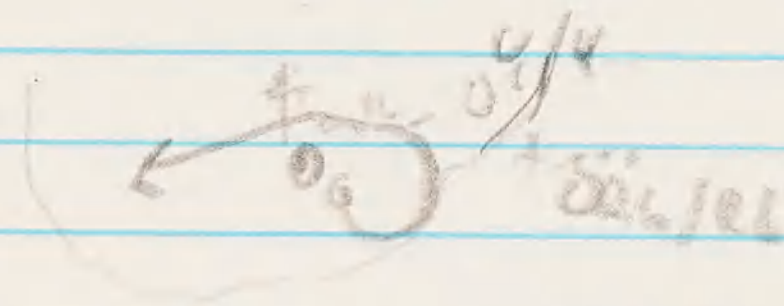
Notting 5/1 7:00-7:30

Swamp W/B/22g 6622  
4 crown }  
normal 69 mm  
12g

Resighting W/B/22g 1 mother  
bird

feeding in - per  
near hollow in  
dense pond area

(Captured by a-p)



disturbed at 10:00  
house in 4/4



was little swim  
activity here  
yet

by Bruce Dyer

Swamp Sp. 041BL 6023  
55mm  
1 crown

Swamp Sp. 1st 1st 6029  
6030  
3-10000

By hollow <sup>at</sup> Beaver Lake

Swamp 66 31  
 2 Big-R  
 60 mm  
 200 mm  
 150  
 0

Shen 1/1/10 68-30  
64+ clawn  
65 mm  
16.0 g



Song - by Willow in  
Barn Pond

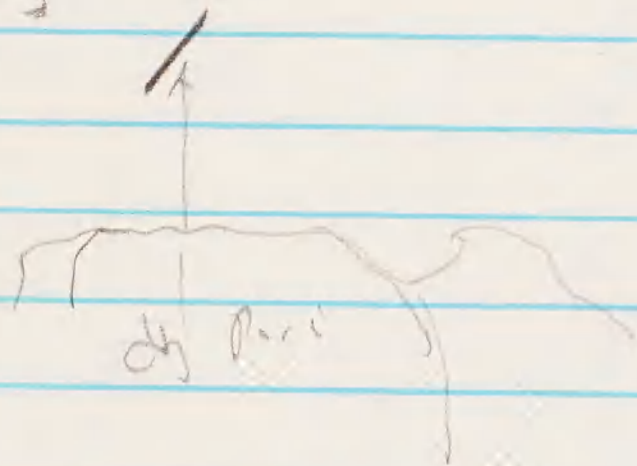
Rd/Blk 66 32

65 mm

21.6

hatched

Song



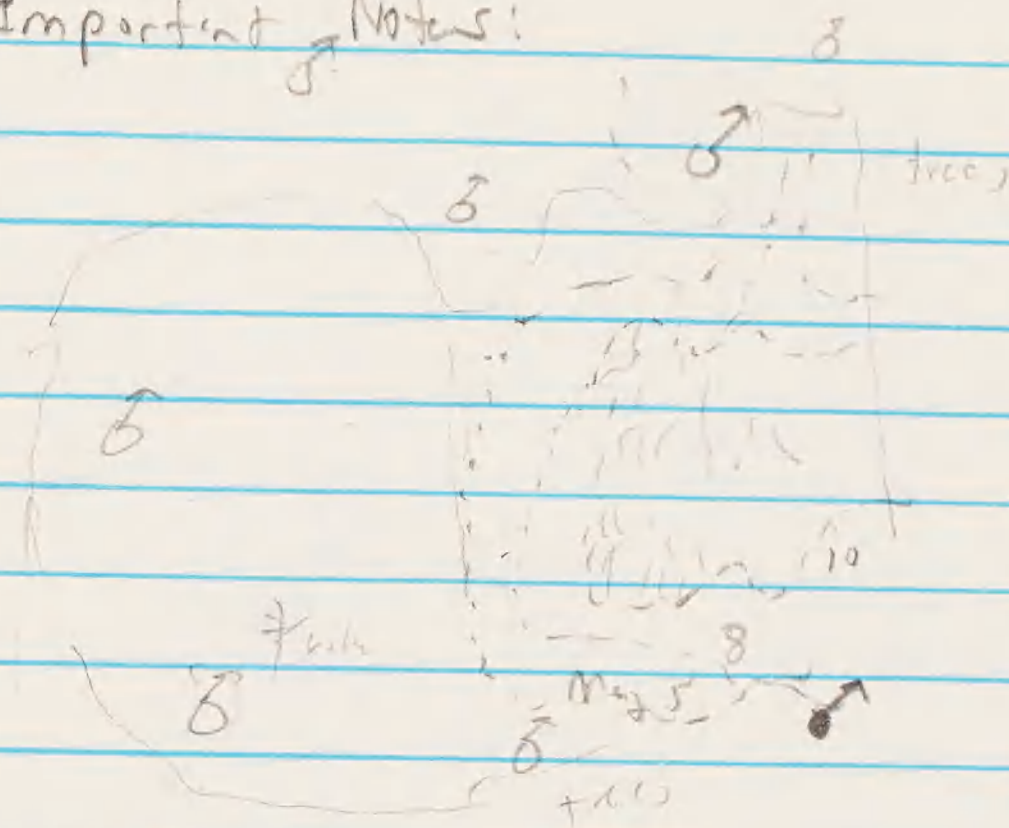
O/R 66 33

62 mm long

14.1 mm high

replied to bird

Important Notes:



This dry pond can be really

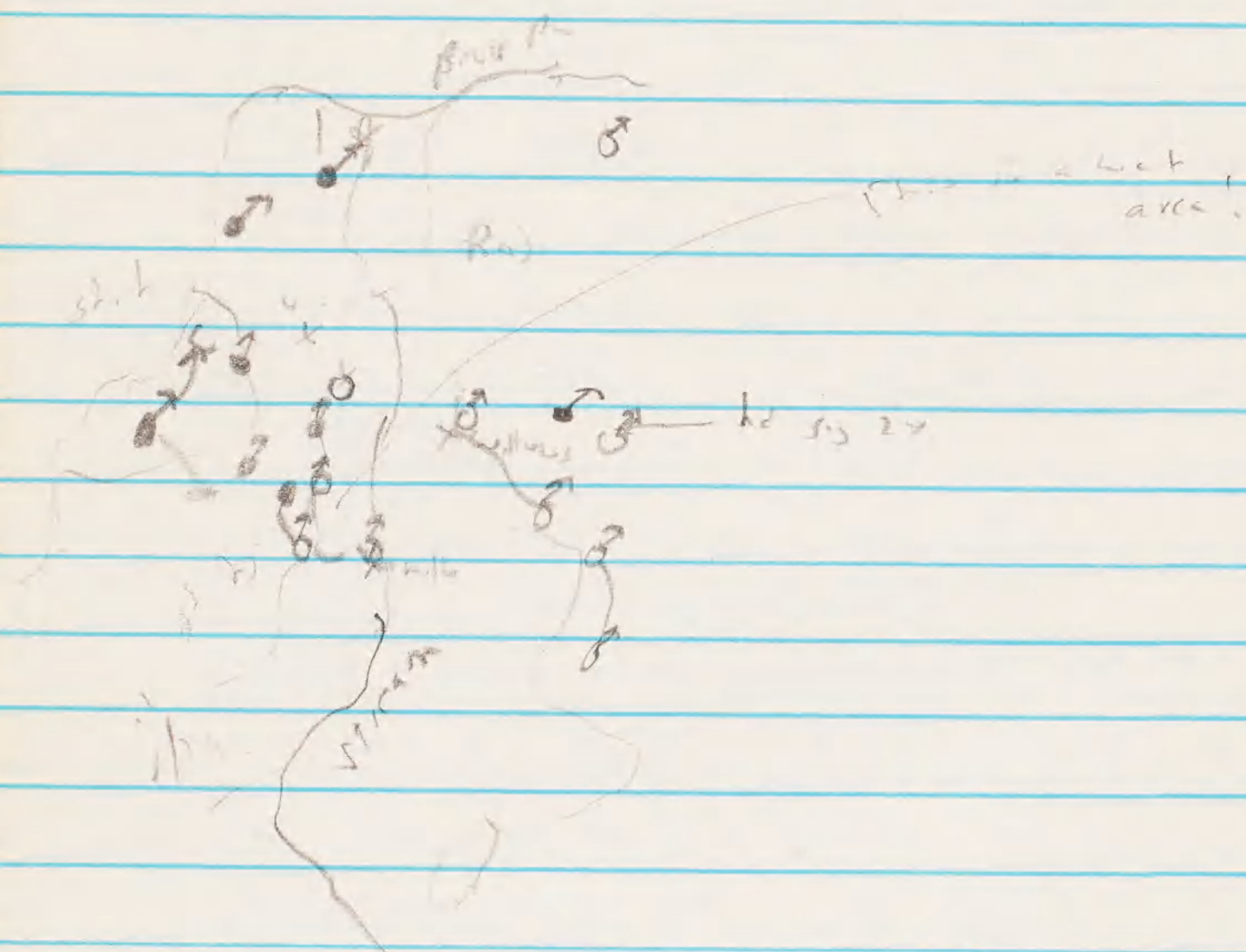
dry in just 3 days

Swamp Sparrow activity has really declined  
on 9/10 saw a few birds feeding  
in swamp & 10 May - only had one  
bird sing



Caught 8-10 Swamps in  
area behind house down  
with only 3 traps -

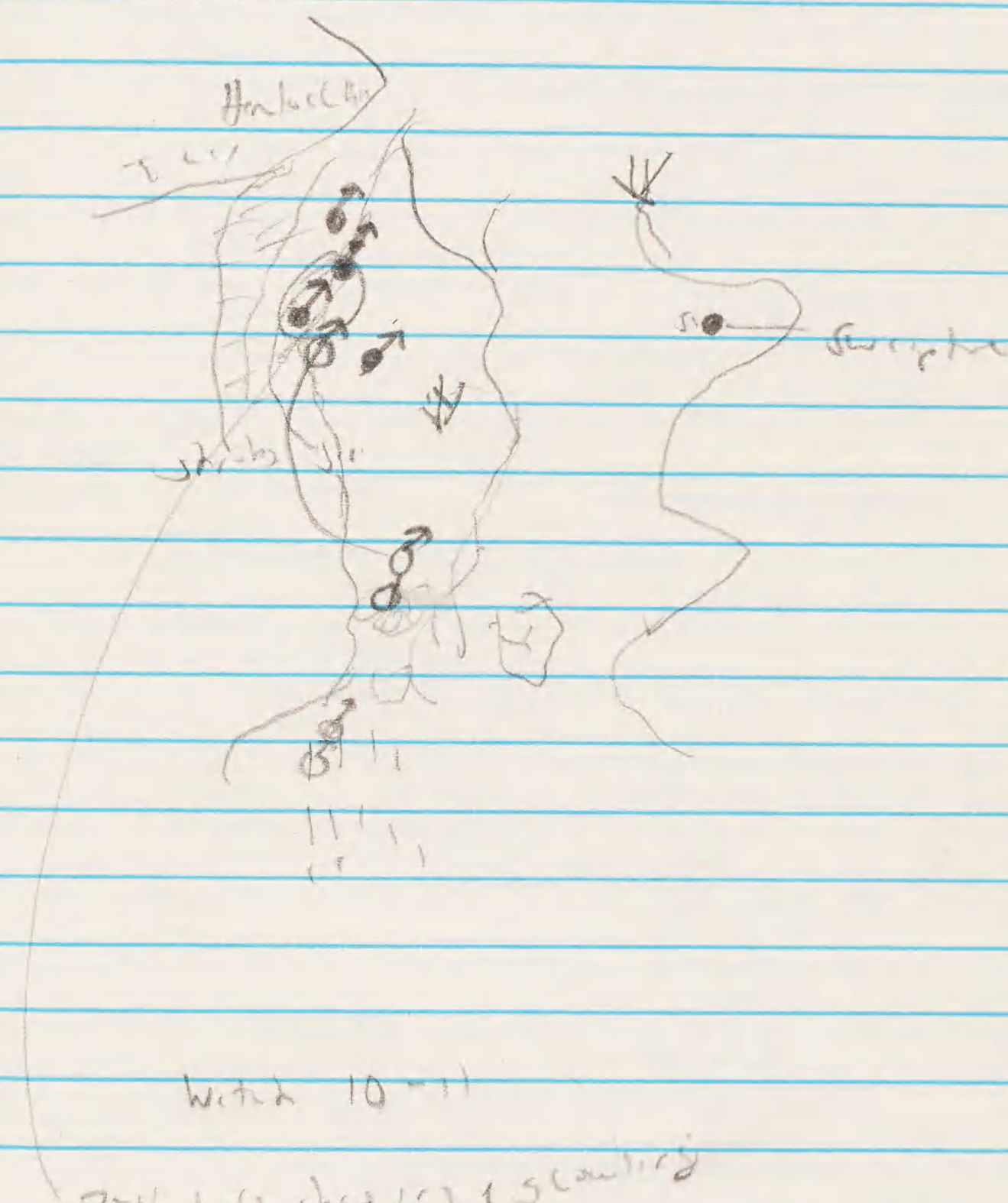
Indicated lots of muskrats



One "insect" Swamp behind willow  
we'll see what develops

Lots more Swamp & downy  
in the Bear Pond

Swamp captured on Sun  
Side of River Lake



Watch 10-11

3-4 big chas 10 & 15 chas

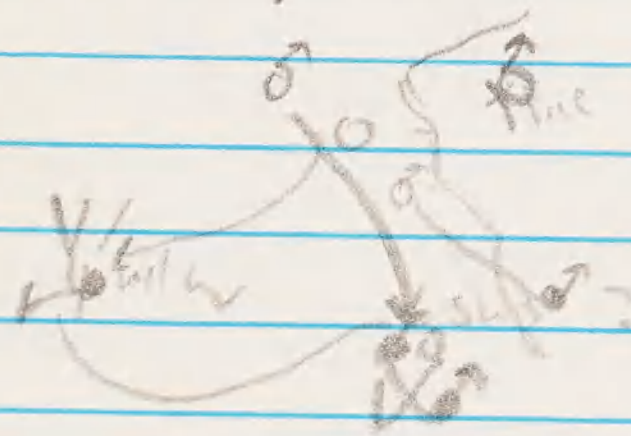
Saw 10-11 near where camp  
on 10-11

L Saw Swamp ♂ by willow (1  
m) due been chas 10-11



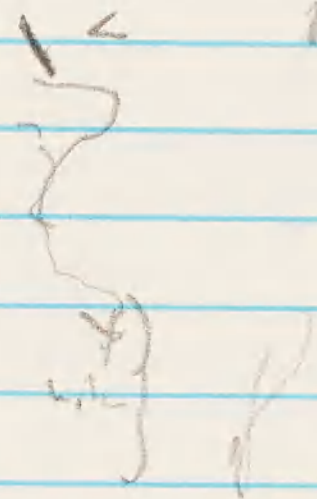
2) Song pr come closer  
 low flew towards ship  
 both went into grass

Swamp flew to  
 new perch song  
 chard - then stopped  
 both perched at 30 m  
 next to each other -  
 Song, chard, swamp  
 Swamp remained + sang



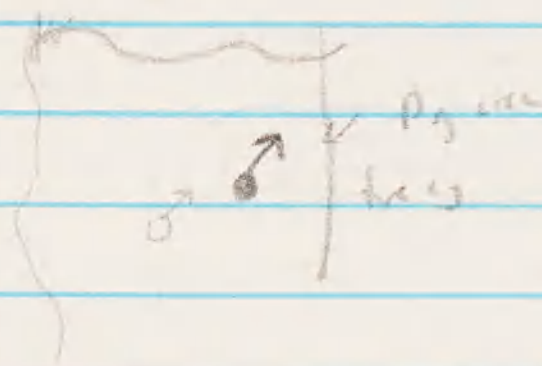
low song followed a song  
 into scrub by

SWAMP caught by L. in  
 River lake



Red Red 6639  
 65 mm y  
 4 crown  
 crown? full

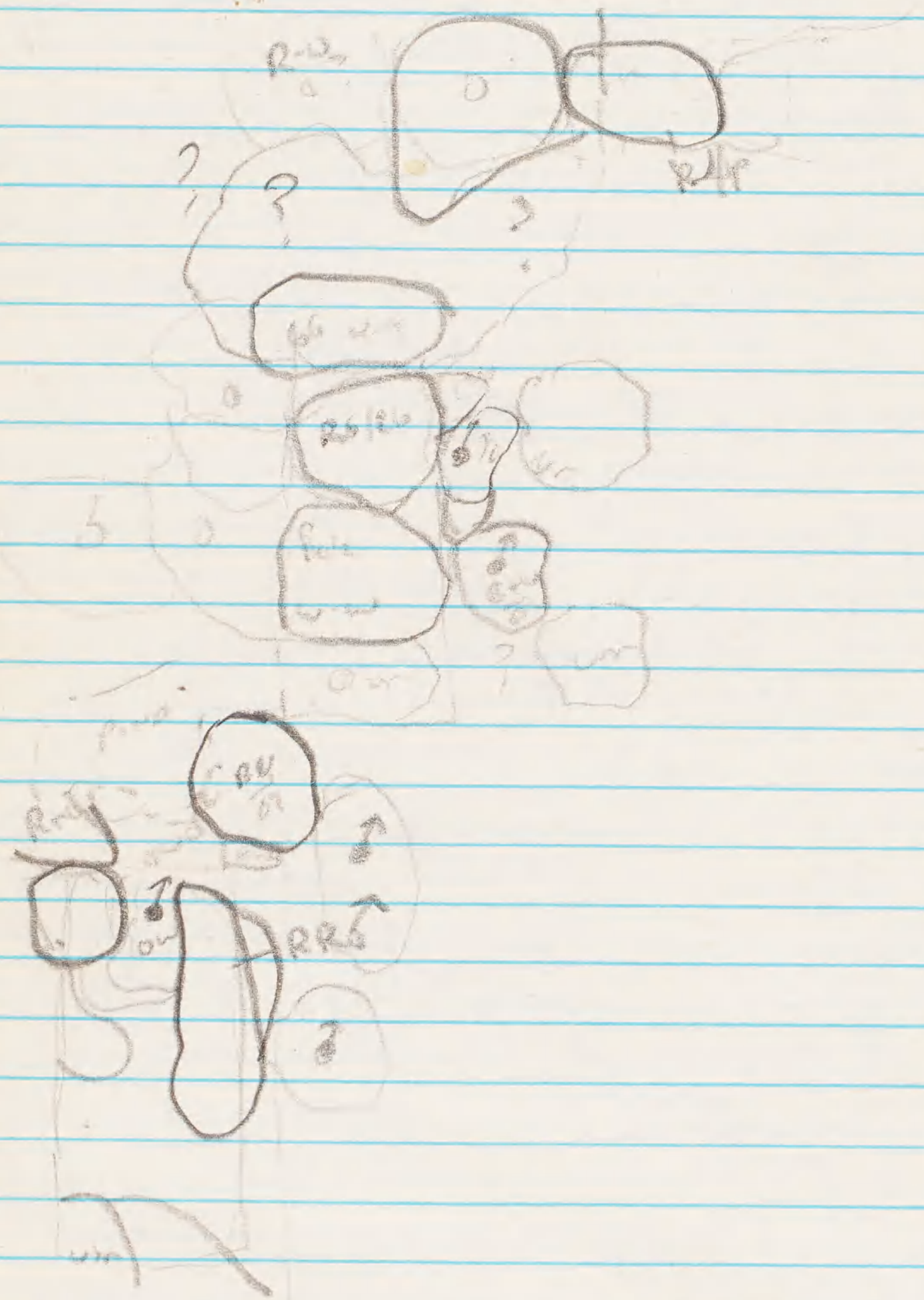
Saw 1 level Swamp by Brown M



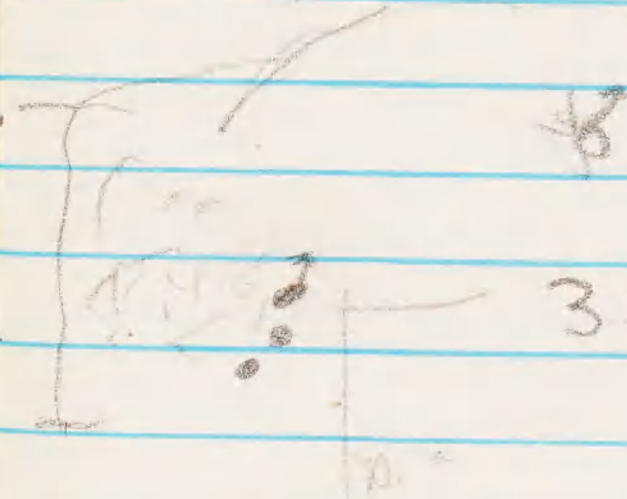
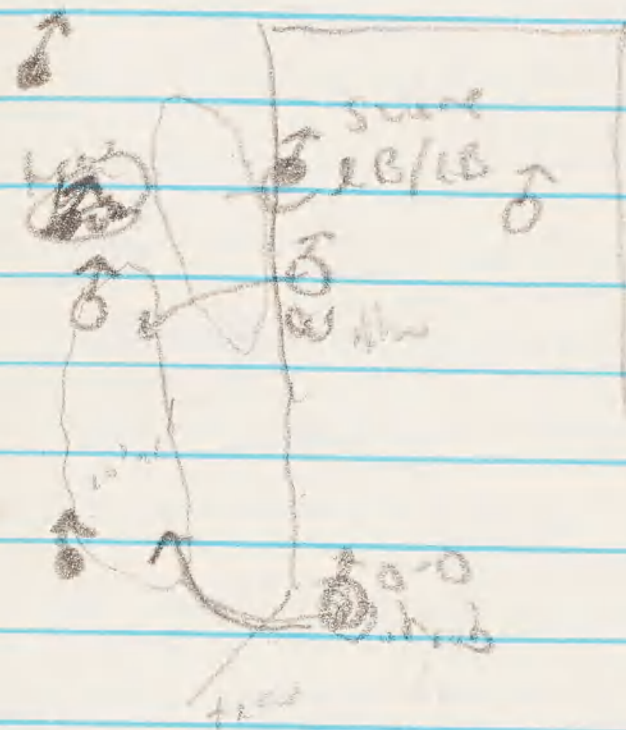
heard Red O/R Song Sparrow  
 19 m distant in back  
 Og P. 11



Possible locations as of 10 May



May 10 3- review

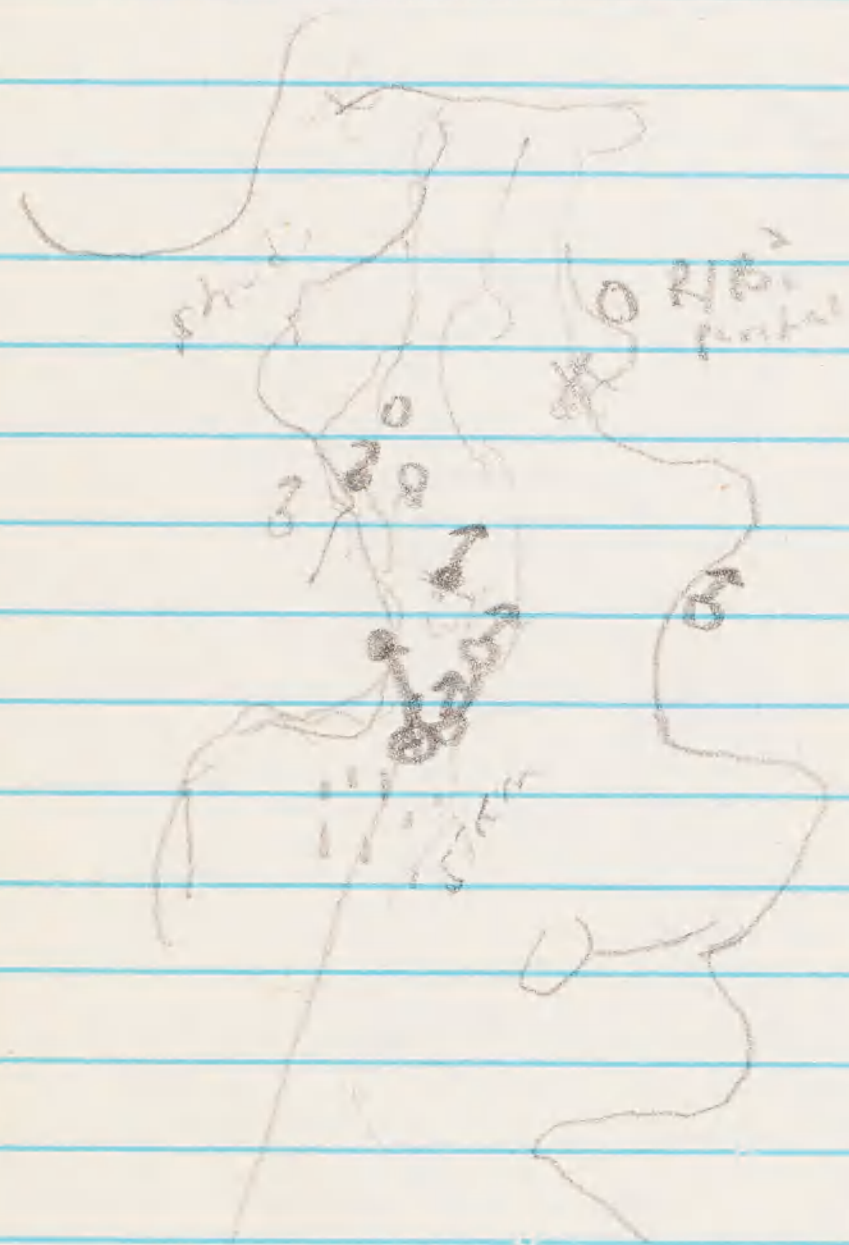


3 Swamps at edge of water  
 G.P. (G. 1/4/15)  
 (see map 11)  
 2nd brown-headed bird  
 + R/L/R/G  
 (see map 11)  
 (see map 11)



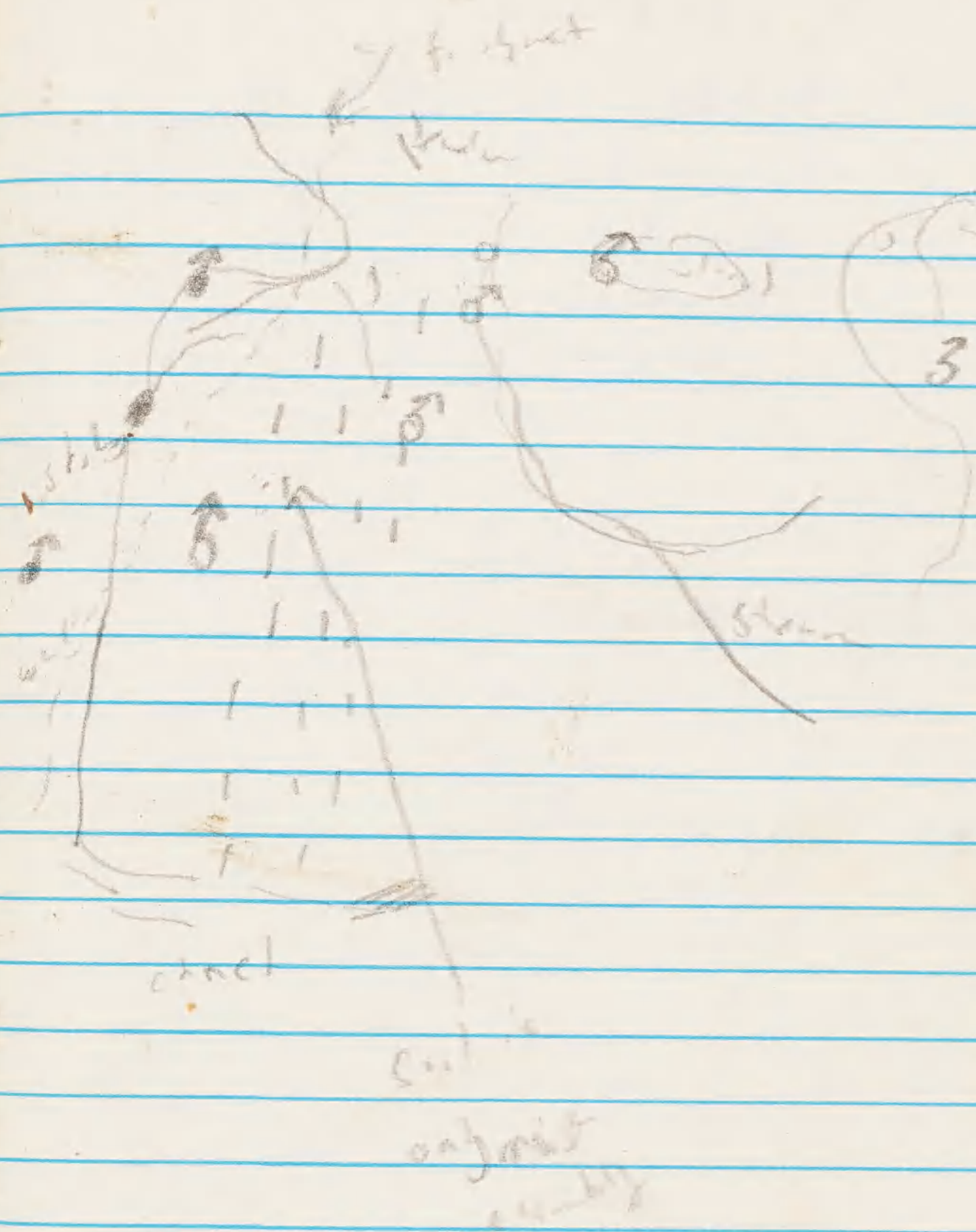
# Bower Pond with 3

5:00-



Saw 3000 deer along road

2nd class of deer





East side Bear Lake

Swamp Y-R/W 66 41

Brown Patch

60 mm

2 rows

♀

Swamp ~~O/B~~ B/L 66-50

61 mm wing

4-rows

Swamp ~~O/B~~ B/L 66-47

60 mm

3 rows

rec'd  
5/14  
with um  
in field

Swamp ~~O/B~~ P/OB 66 32

65 mm

4 rows

Swamp Ag/R-4

66-7

60 mm

2 rows

Swamp 2 rows Died

Song B/P 55  
67 mm wing

lost all  
claws

Song B/O 43  
61 mm



Swamp 9/R 4/R 2/R 1/B

Swamp 1/11b 1/R 1/B

Swamp 1/R 1/B 1/B

Swamp W/R - 4/R 66-58  
W/R 57mm  
10mm

Swamp Song W/R 1/B  
B-W 1/B-W 66-48  
60mm

Swamp E/R 1/B 66-78  
59mm

Swamp W/R 1/B 66-53  
59mm  
20mm

Swamp 1/R 1/B 1/B

Swamp - at willow 1/10 66-43

♀

60mm

4-10mm dark grey tone  
Basal patch

Song W/R 1/B 1546  
1/10

62mm

Swamp P/B 66-35

1/R

B-W 1/B-W

B-L/B-W 1/R 1/B  
1/10 1/B 1/B

B-W 1/B-W 1/B

on right side of

B-W 1/B

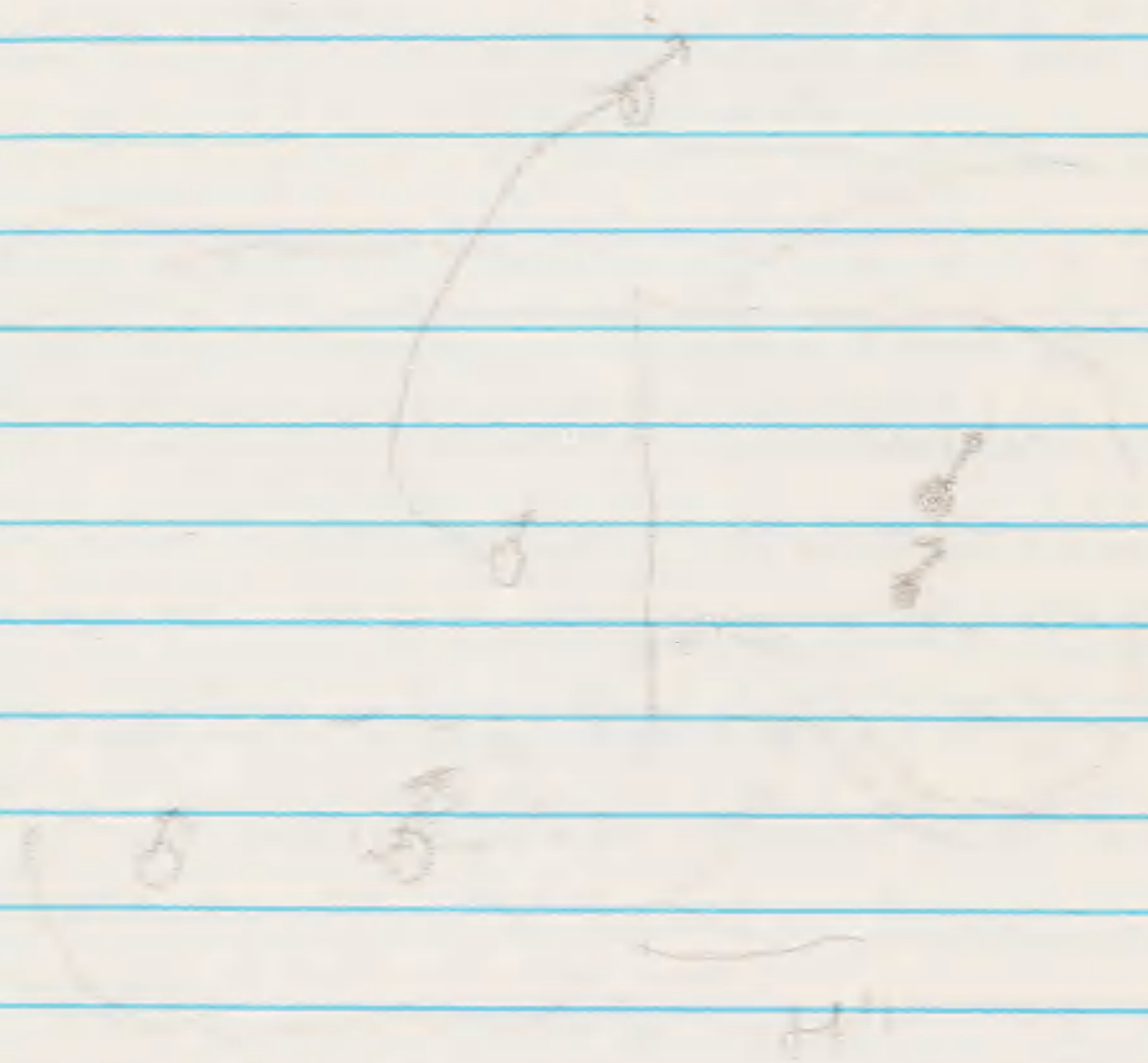


Notes from the evening at Mt. to

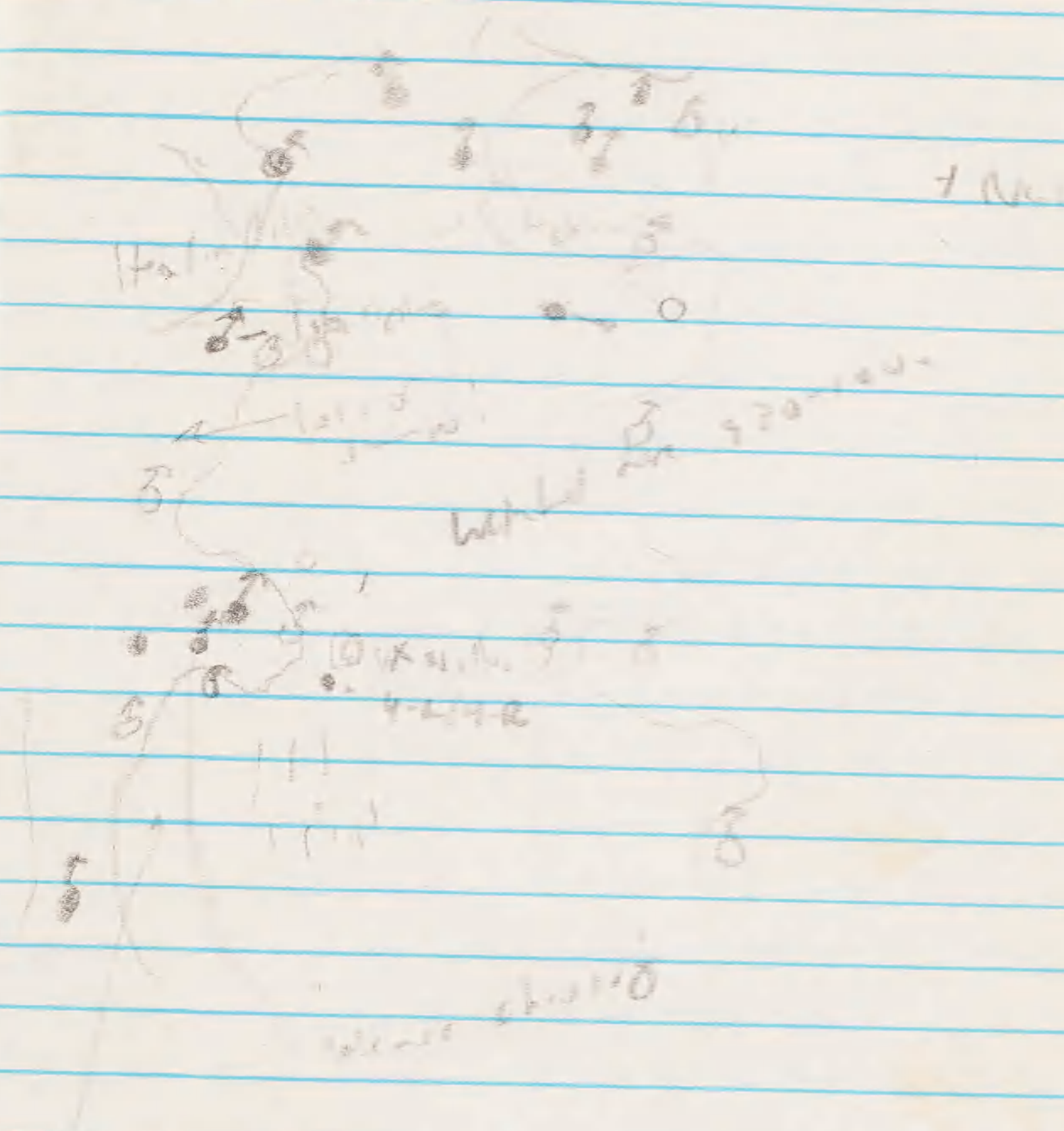
and the day after

Field Survey

was the course of road



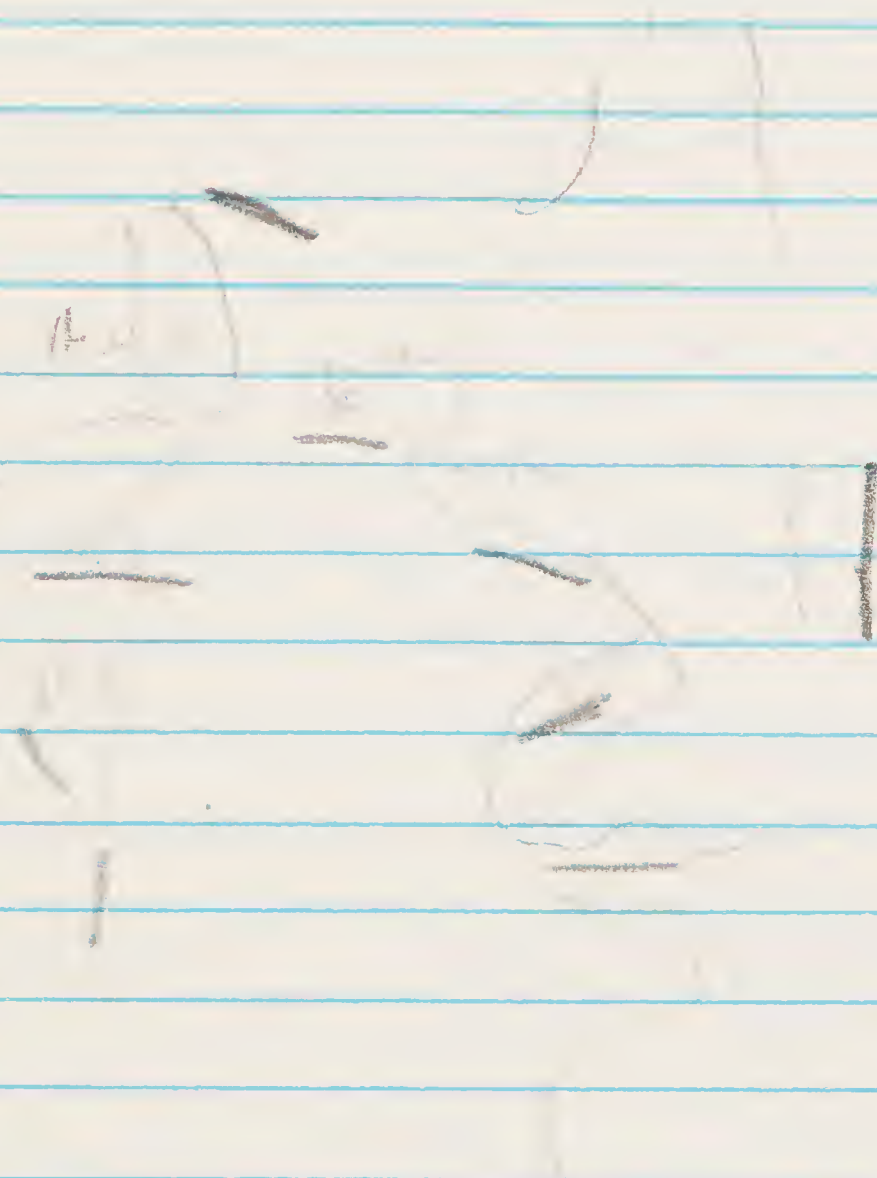
Mt. 11 setting of the river



with the river



Net locations for May 11



May 12 positions



29.3

Sum = 18.50 14.3

13.4

17.8

172

18.7

Swamp water @ 15A 15 G

16.4 16.8

14.2 15.8

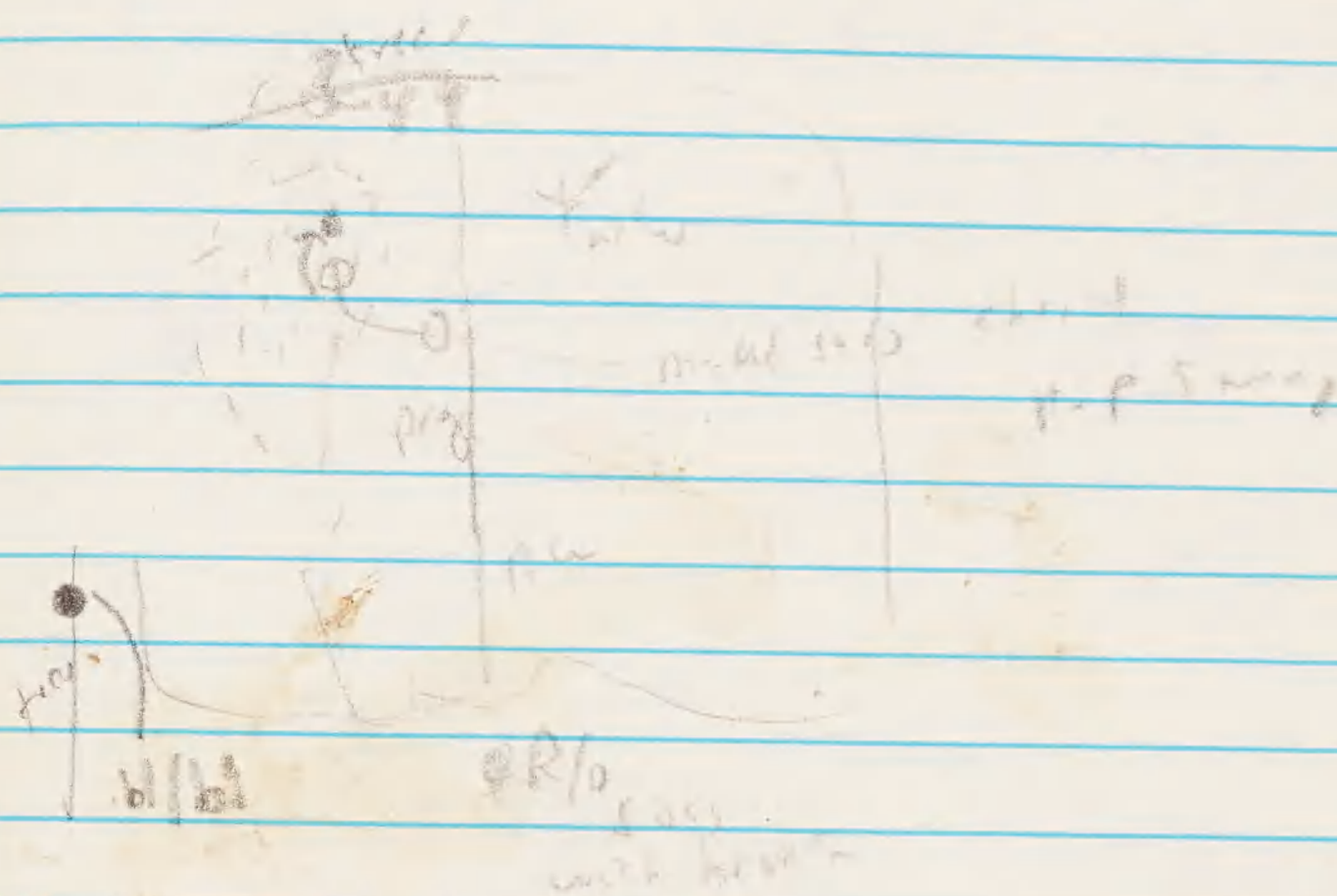
Swing 2 H.B.

12.

Sub 16.3

14.8

Nitz



Song 2  
14.3  
12.7

15.3

16.7

120

18.6

Sog 3

18.9 20.1

186

18.9

17.

173



My B

R3D →

10/20/2003

Dry  
Bear Lake

Swamp A

1 7mm round  
3 x 1cm bees  
7mm beetle

~~.08~~  
.13

B

1 5mm round  
4mm honey  
1cm bee

.15

C

2 x 1cm wasp

.06

D

.12

Swamp A

6 x 1cm fly

.08

Swamp B

.06

Swamp C

.03

Swamp D

6 1cm flies

0.2 wasps

.09

Swamp B unmarked



Wet corey meadow  
Swamp 3 14.8 11.2 <sup>in Bass</sup> <sub>Low</sub>

12.5

11.4

11.2

12.2

Swamp 4

13.0

11.9

12.0

12.5

11.6

11.2

Swamp 4

Swamp 5

5

10.7

9.6

10.5

9.9

11

12.4

Song (on the side of the)

10.7

16.7

16.7

17.0

16.8

15.8



Playback Experiment  
on

learned feeding of  
E. B. L. L.

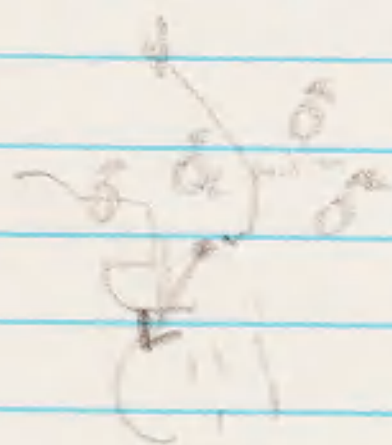
Singing song

Swamp song is repeated  
to ad. as  
shrub to singer  
60"  
Chipping

No response  
to song to  
before

(The song & the whole song)

6-8 songs



☆

a couple of results

at 60 feet



May 12 only

Mid - Bear Like bird

Song

Dgr/Pink

66-71

?

12 min

Sung

Mid Bear Like

67 min

P. Idgr

66-53

2 min

Song

For

Bear Like

13/Red

66-53

6 min

Song

Mid

Bear Like

66-37

13/Red

67 min

for

Bear Like

Sung

Mid

Bear Like

13/Red

62 min

4 min

CP

Sung

Mid

Bear Like

62 min

13/Red

CP 62 min

Sung

Mid

Bear Like

5 min

1 min

66-59

R-B / R-Y

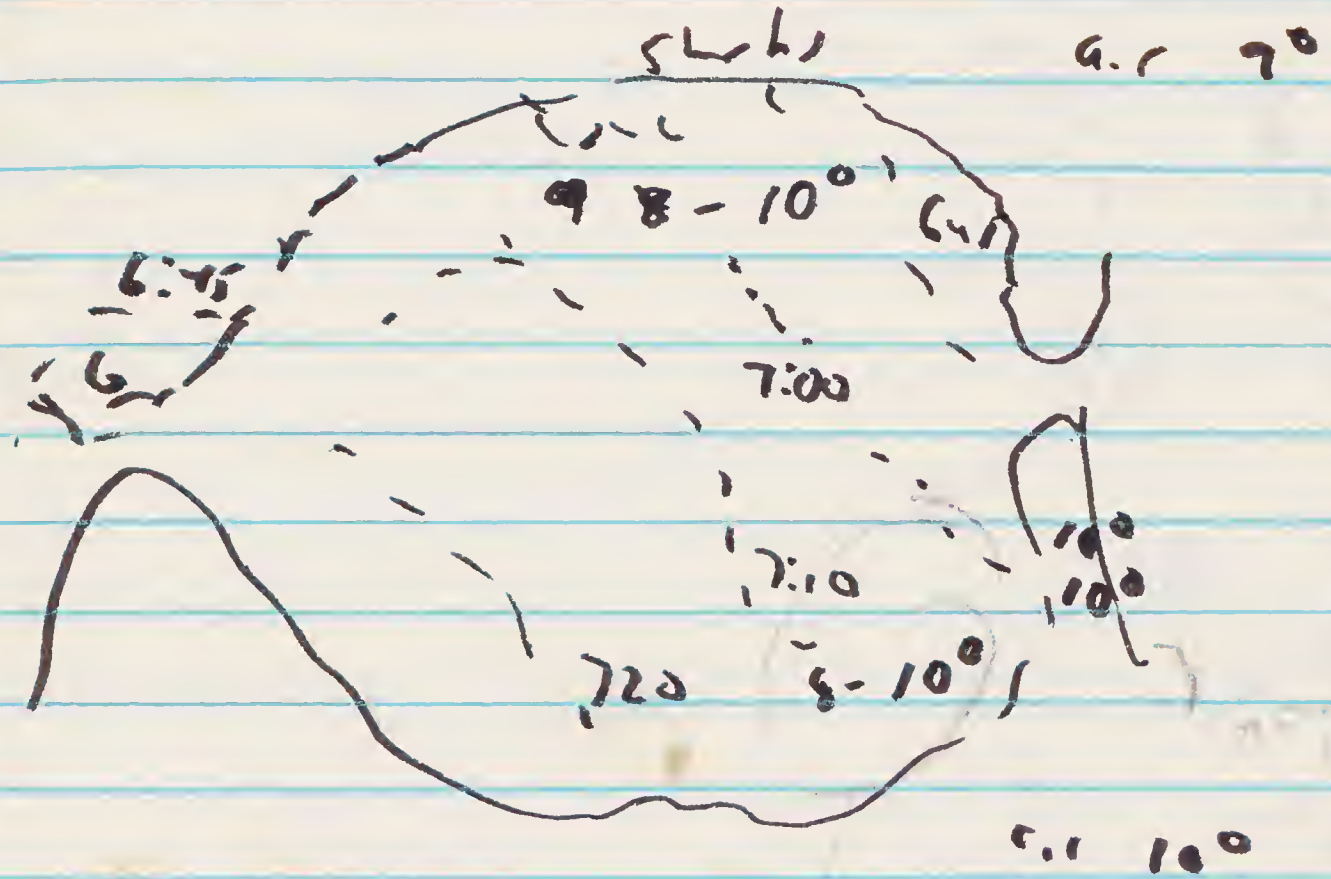


Swamp m.d. Beaver E  
 w-6/Red 6645  
 62 mm ♂  
 4-crown

~~Swamp m.d. Beaver E~~  
 Sory for Beaver U  
 w/B 6676  
 62 mm wing

Swamp M.d. Beaver E  
 4 crown ♂  
 w/B 6673  
 63 mm wing  
 UP

So. l traps  
 @ 8:00



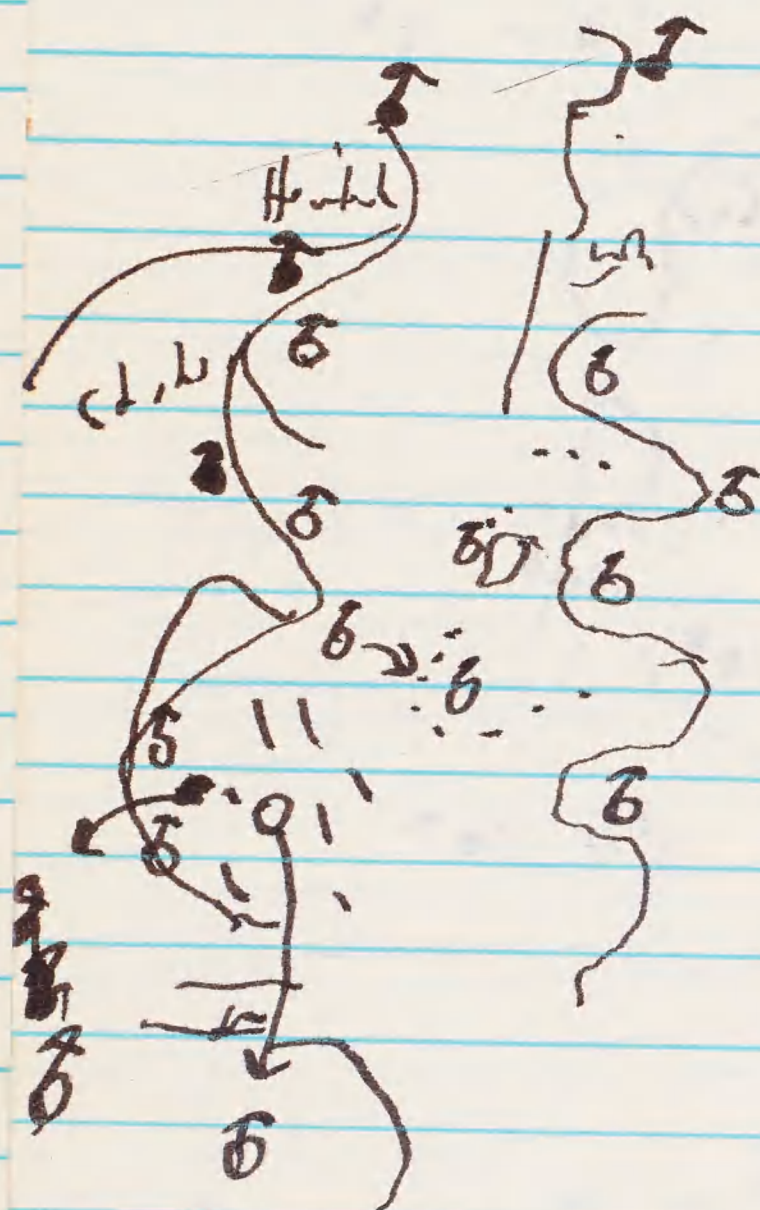
sun hits

Noon air temp at base 22.8  
 so. l. temp 12.8

dry 11:00 11-12  
 wet 9:45 8-12  
 15



# Observations



May 12<sup>3</sup> Bird

Swamp E River Bar

P/13

6637

64mm

4/10/12

SP

Surg EAT Bar R

P/13

6672

68mm

Surg

Bar R

66?

Red/O-W

64mm

Surg

AA/R-U/B

66-68

72mm



Singing E Brown Par

66 59

0-4/0

6/10

♀

3rd Brown pair

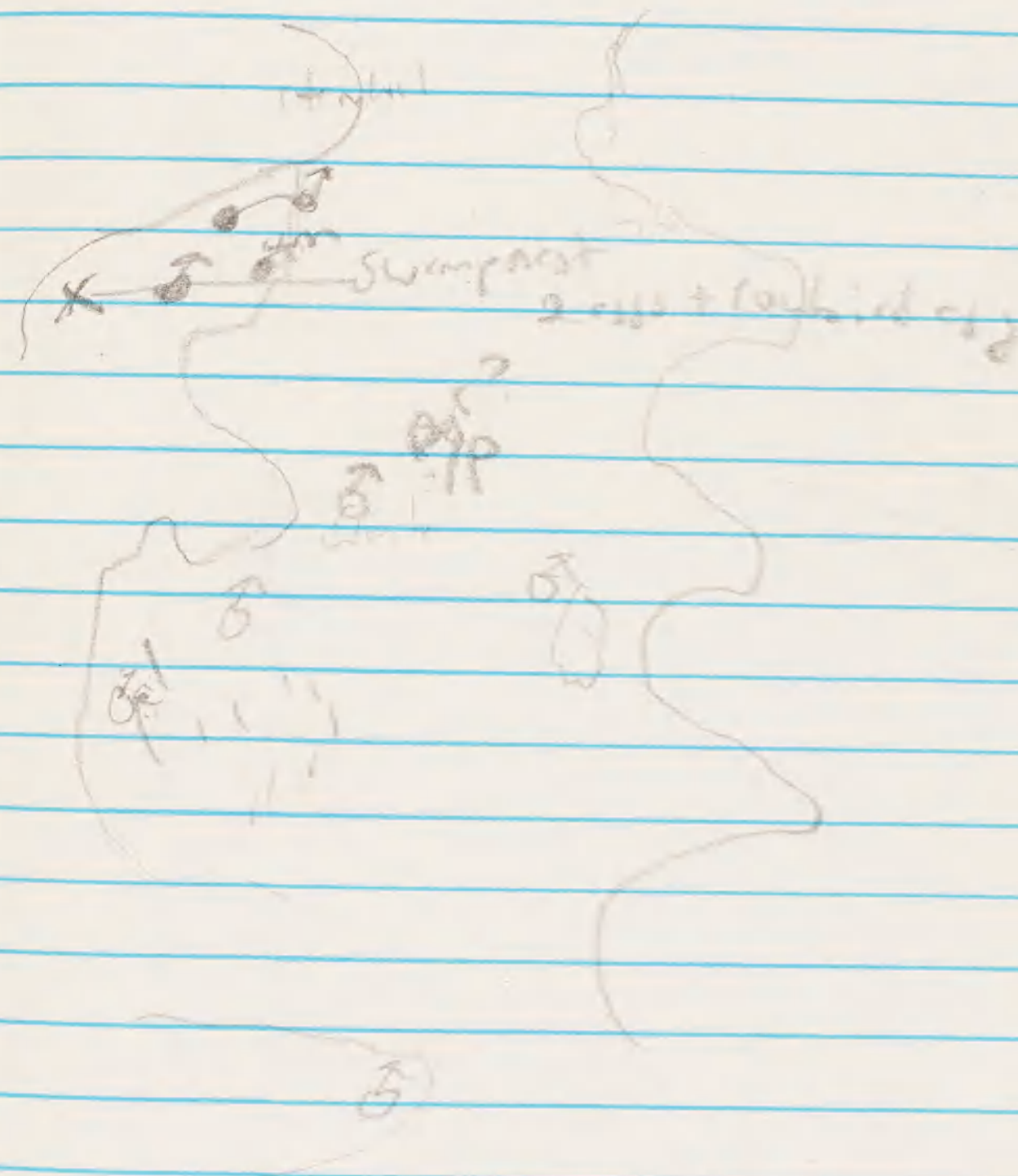
Song

66 69

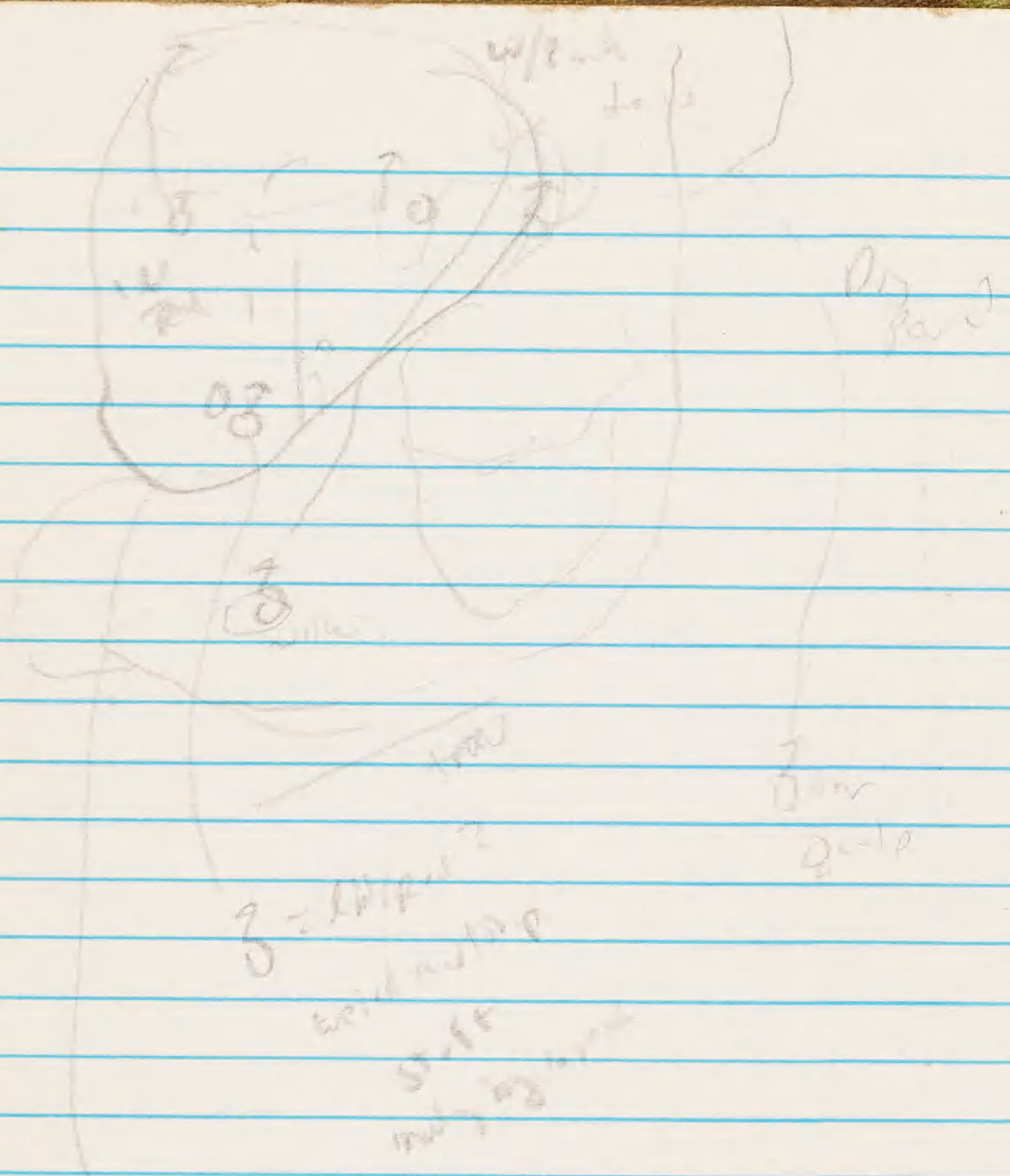
Bumblefoot 0/B-4

May 13

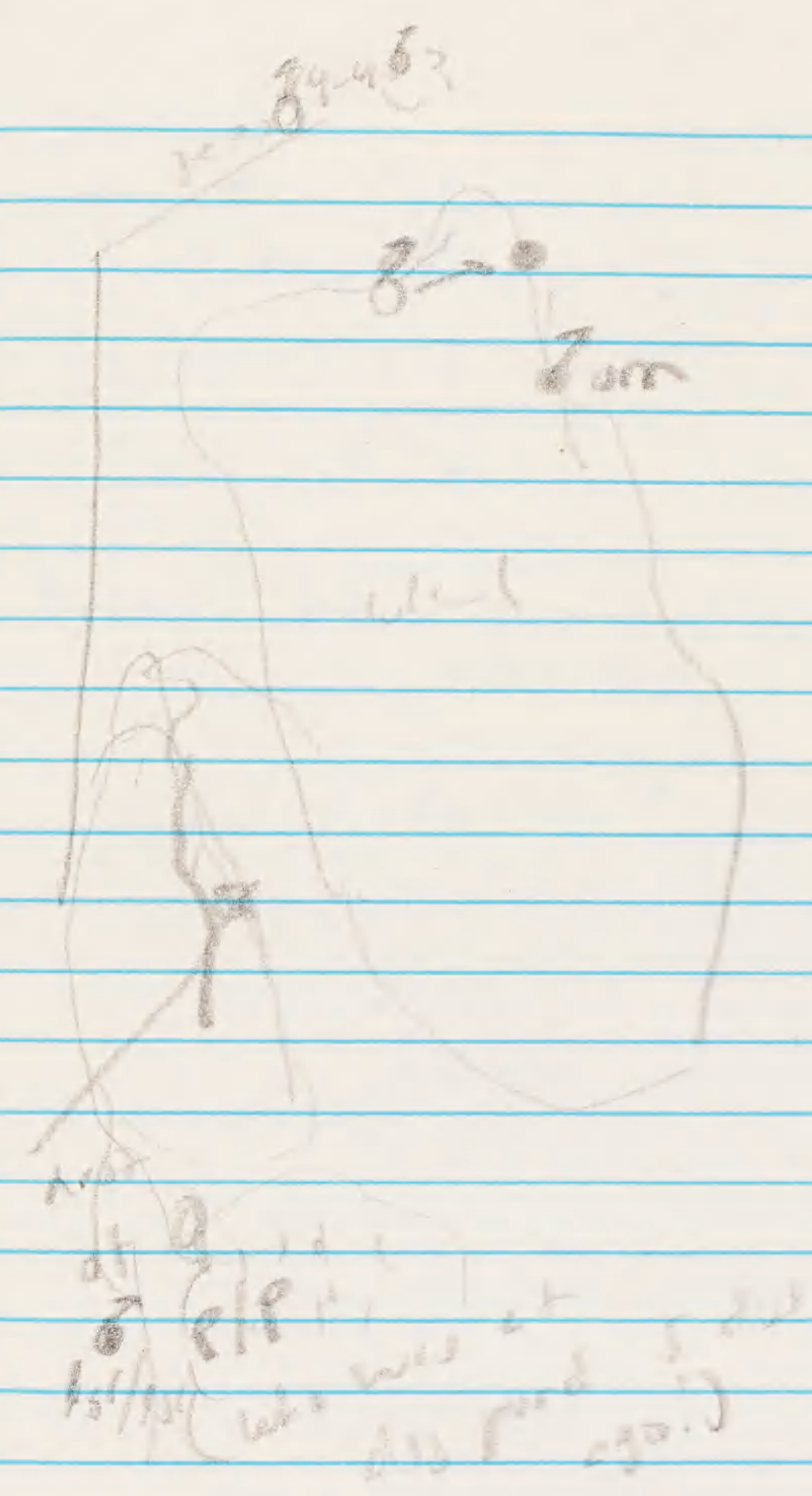
Notes





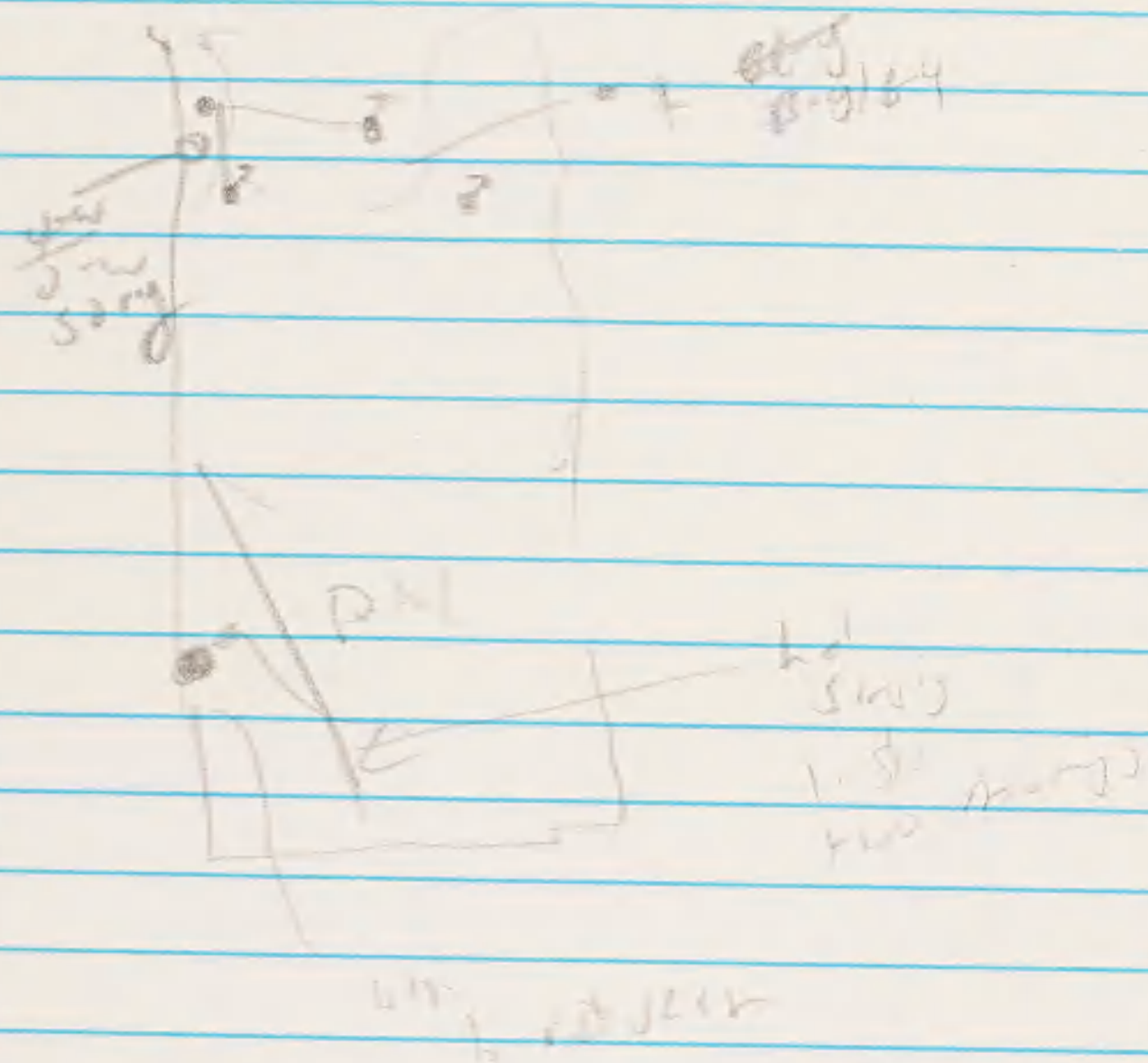


10/10/80 and  
family O/R  
what I  
think did



1st/1st  
at Q  
who was at  
did find 5 dms  
ago.)





B-4/0-4 was off  
rest

pm  
DNL Bar Pict  
Y Swamp I/P  
(bird in 1st song  
is P/P?)

by camp song with Red or  
or Red Bar

dyr/dyr in P/P Area (by Willow)



1st A and 2nd A  
 9/11 and 9/12  
 (9/11 and 9/12)  
 (9/11 and 9/12)

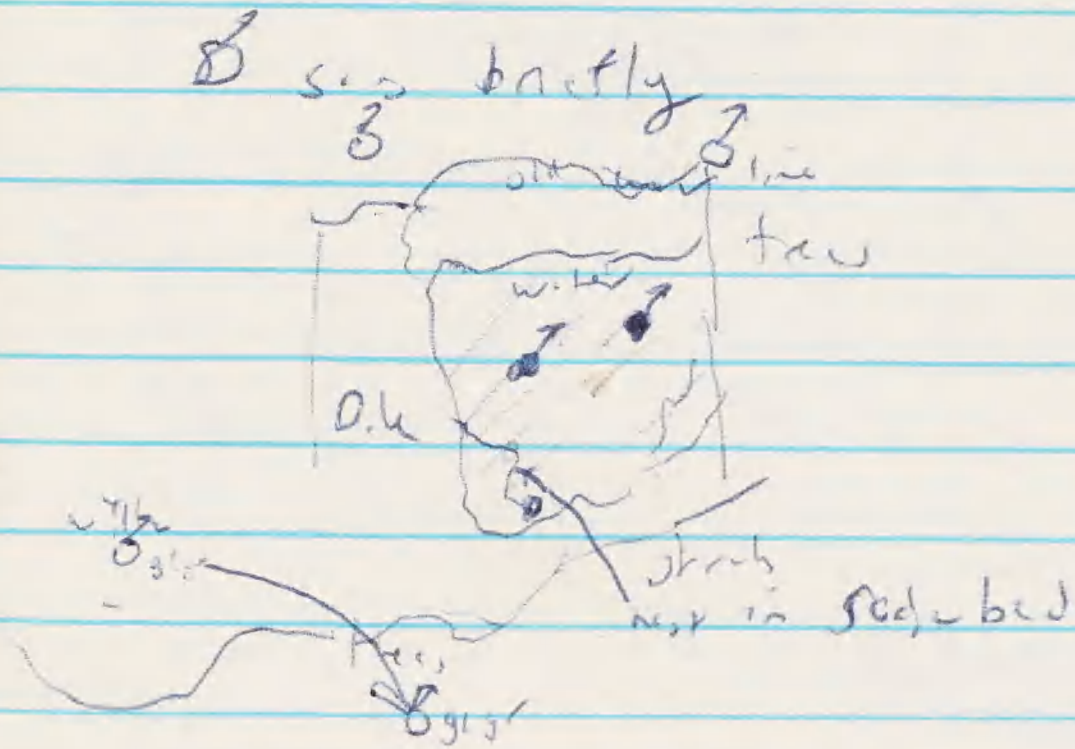
1st A and 2nd A  
 9/11 and 9/12

1st A and 2nd A  
 9/11 and 9/12

May 14 <sup>cloudy</sup> + windy  
 830-1130

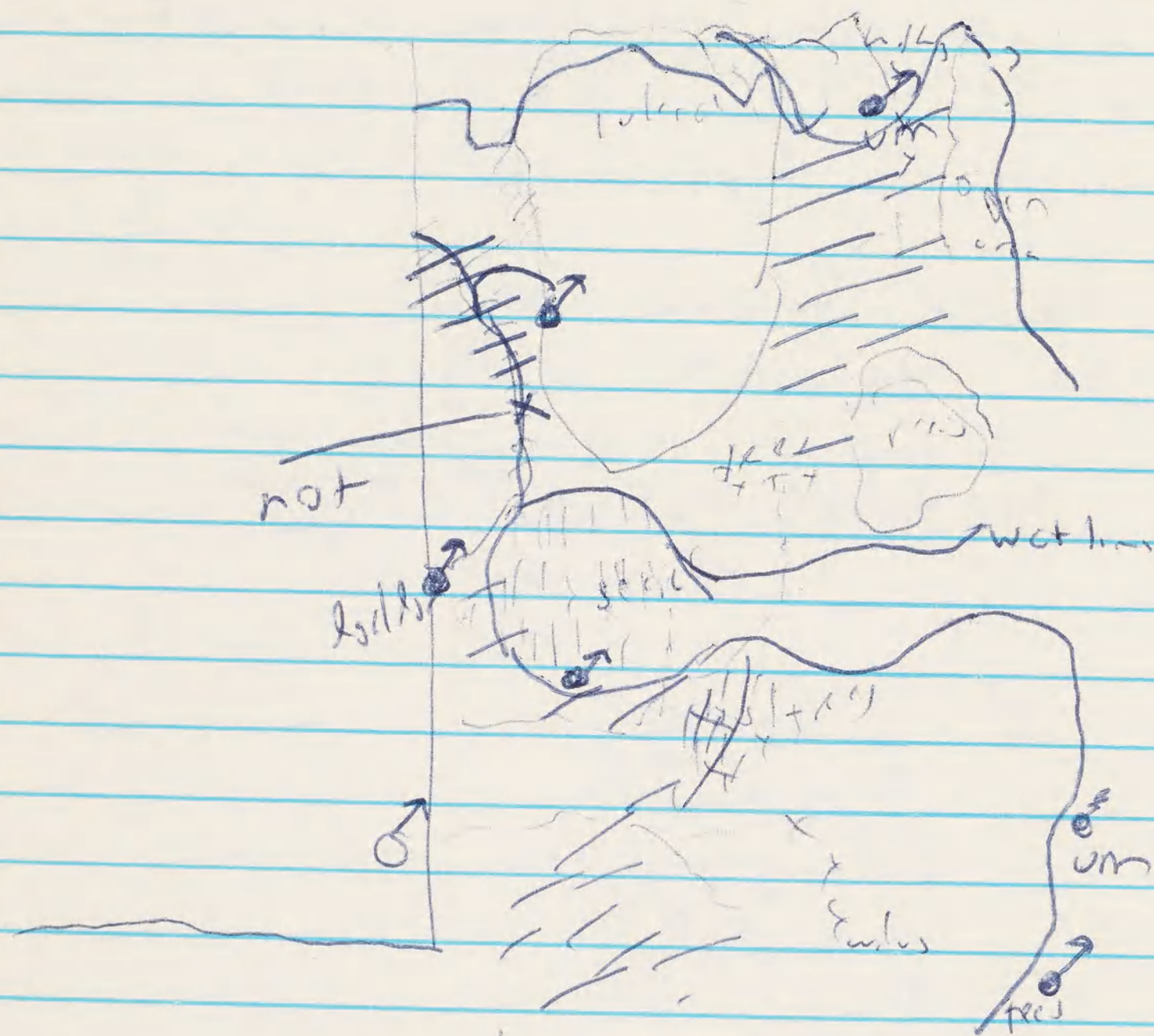
Went out with tape recorder  
 played dog tape behind Pond  
 got no response

Then went with Swamp  
 At "dog pond" I got  
 little response - 9 came out  
 nest (4 old babies + 1 egg)  
 all Swamp





shocking drying in Swamp 2 area



// = dried within last 2 weeks

~ = water line

got poor response

from nest in pluck

at top of island 2 cm in brush

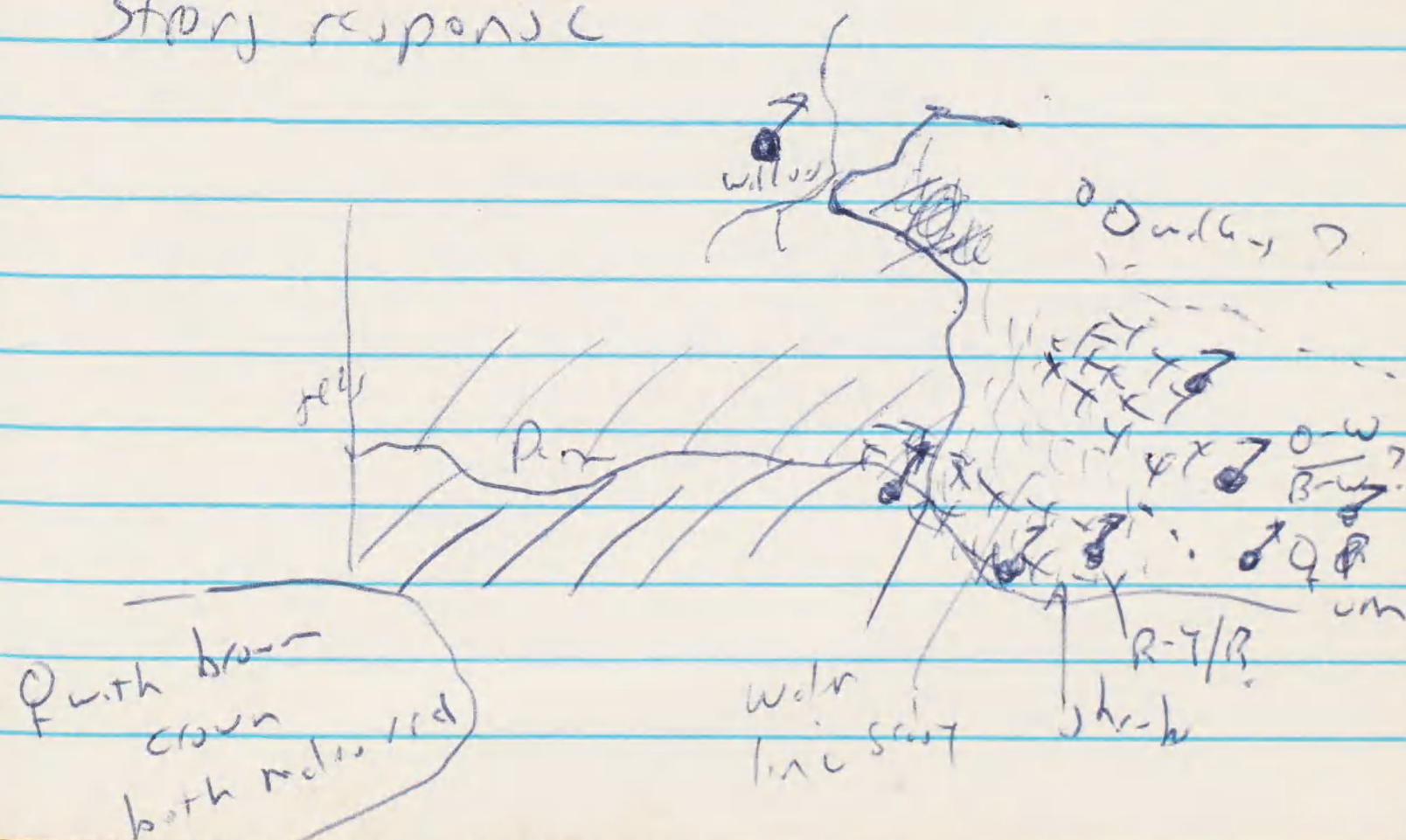
at low right side (water area)

one (one in)

Q1b/1b (not pub!) got off nest.

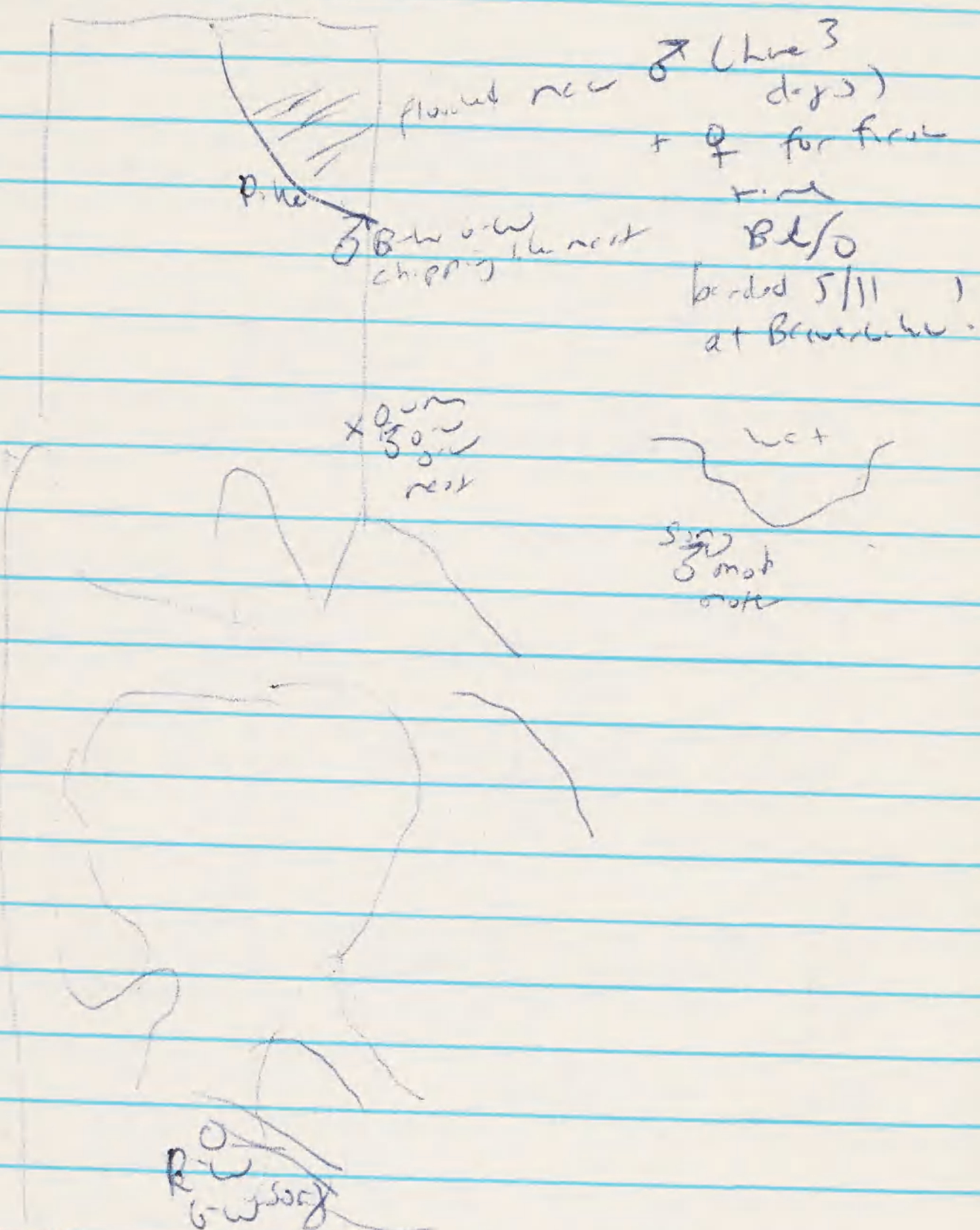
little song sparrow activity - should prove interesting in next 2 weeks

By Brewer done E sat a strong response

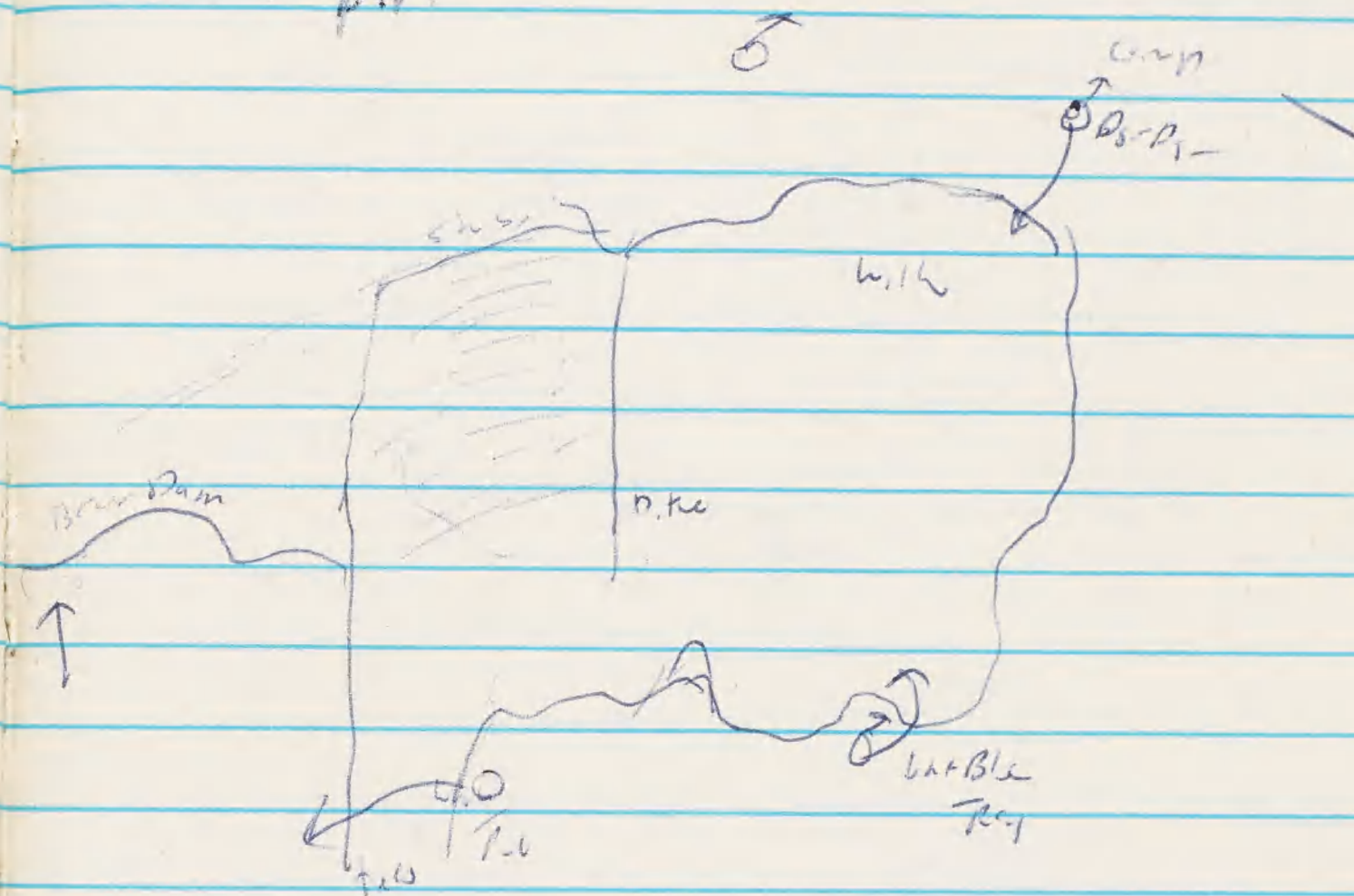




5/14 counting



pr

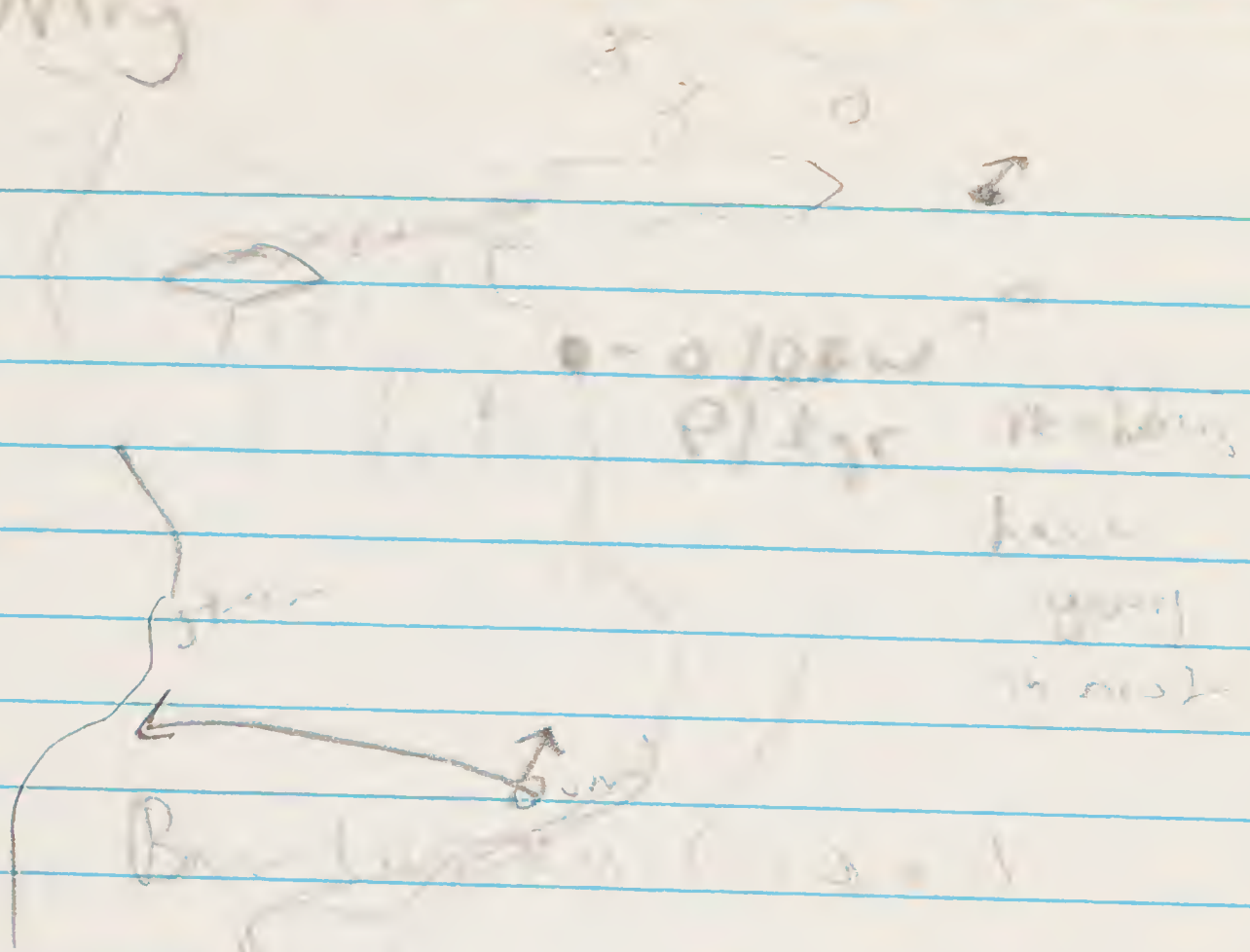


Watched 2 crown Snaps feed  
by wading into deep  
water for several minutes  
2/

Later saw mouse mouse  
at Blakely patch  
in Field 2 near  
ring



31 May

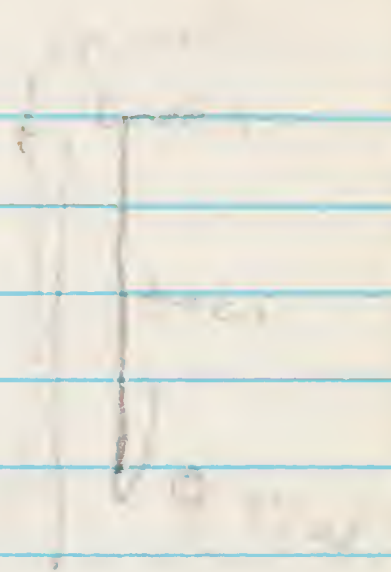


1000 ft. 1000 ft. 1000 ft.

1000 ft. 1000 ft. 1000 ft.

Day 2

Day 2



p. 4

Page 2

Page 2

B-4/104

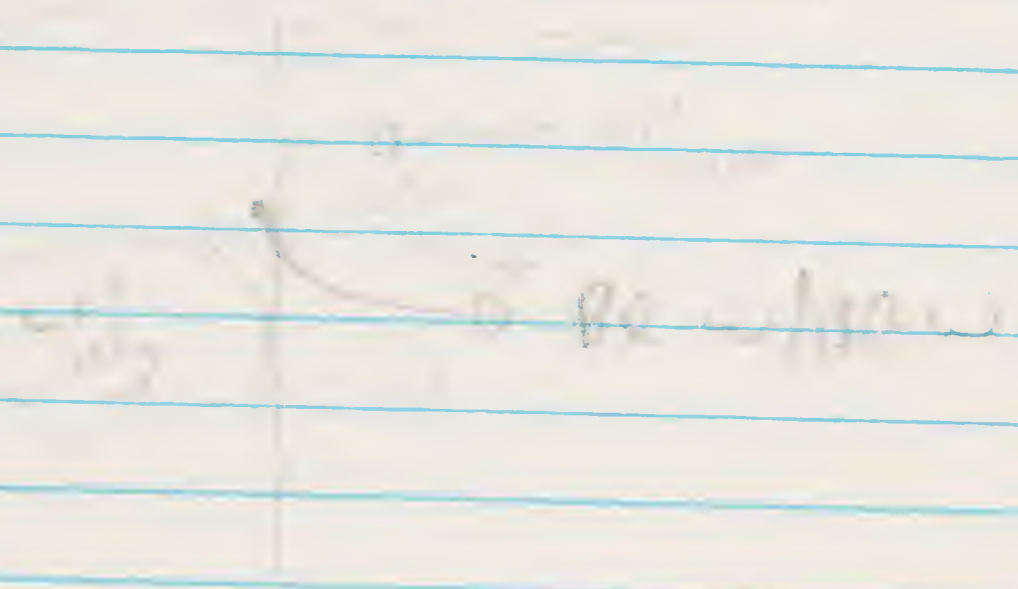
B-4/104

Page 2



Plymouth Fulling April

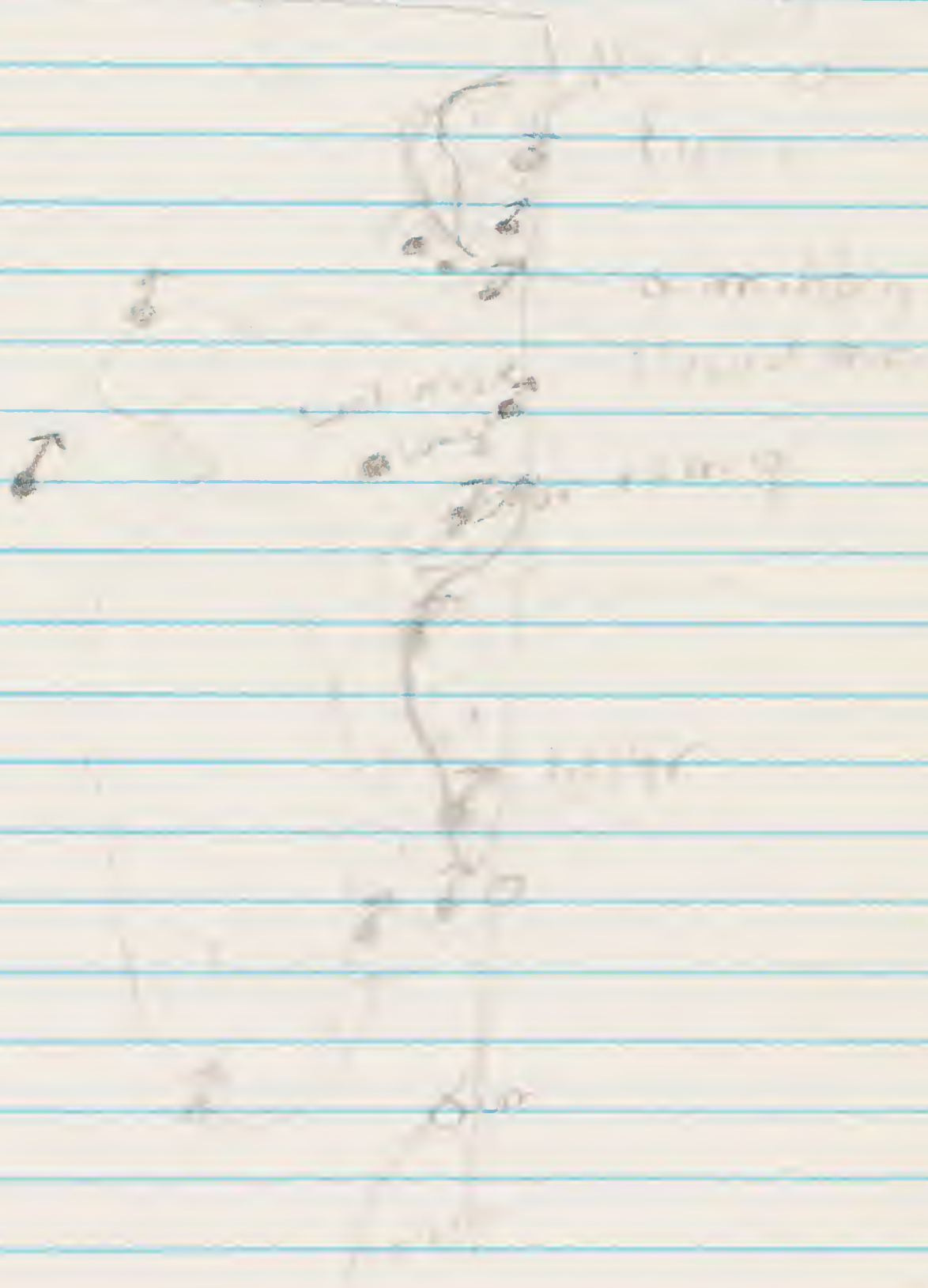
Clear 1000  
7 1/2



Planned road (1000 ft)  
Note: 1000 ft = 1/4 mile

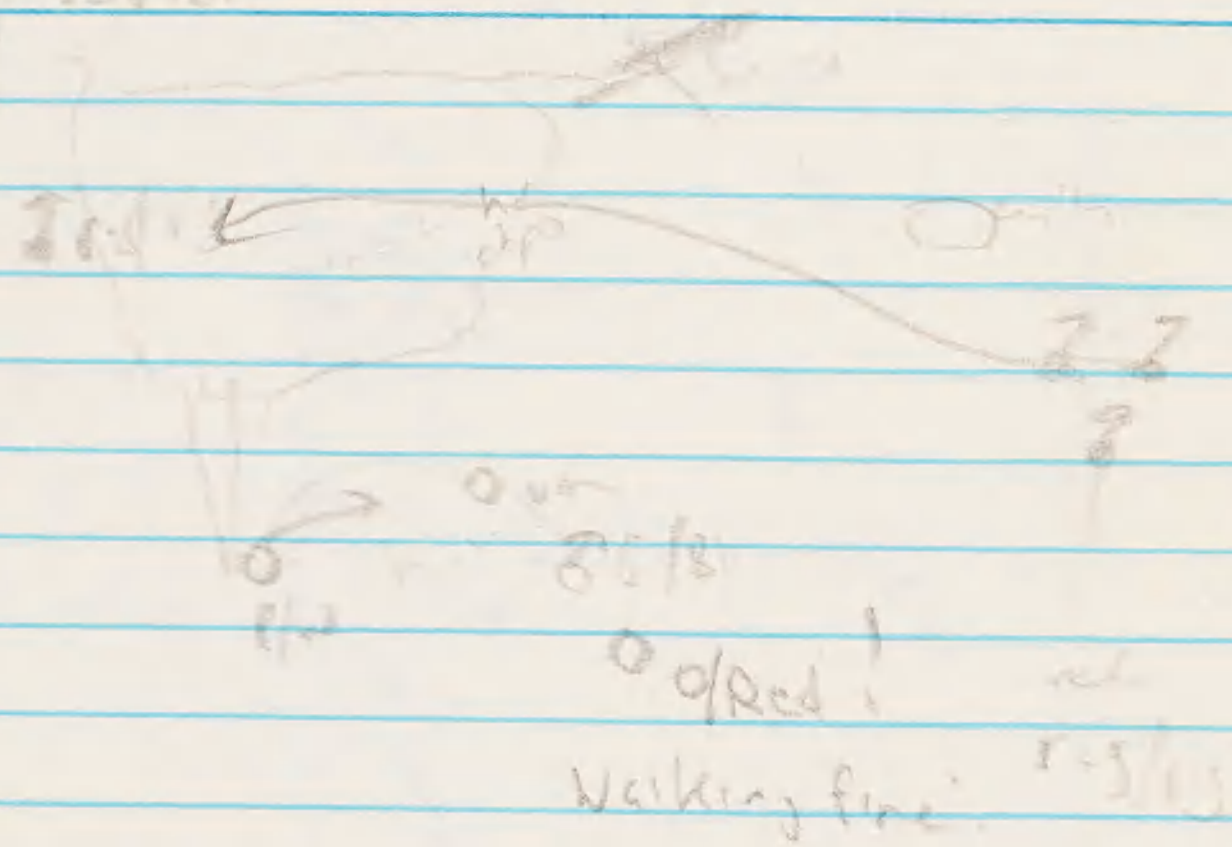
Sketch

Plan





Day Pond



are some blue this is very wet

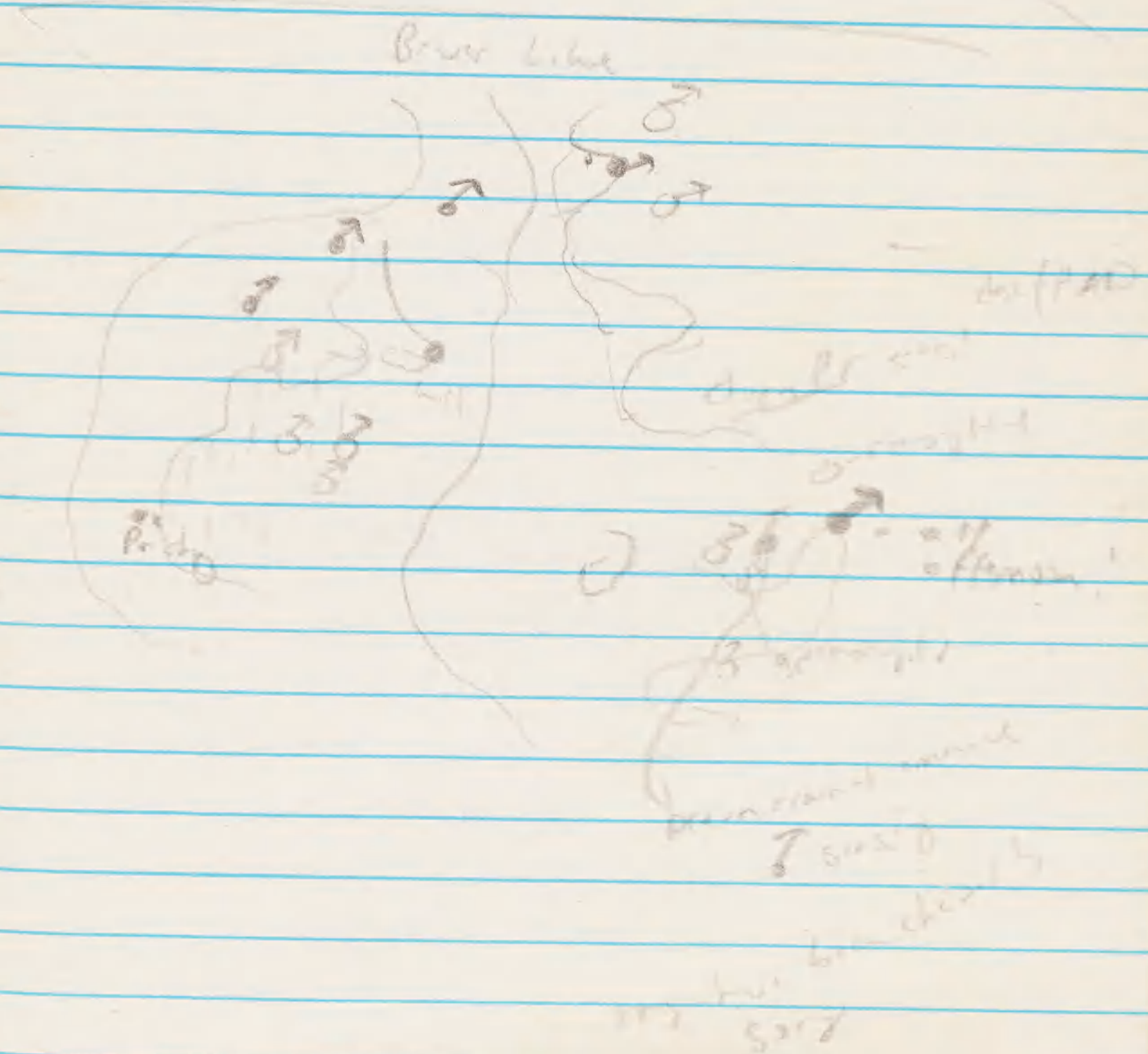
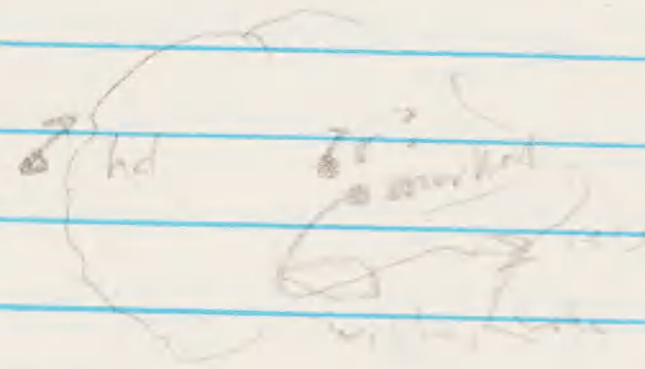
this side must have flooded

last week is heavy rain

at night on the  
side quite far for 15 min

June 1 3:00-7 pm

B-2 / B-6 saying from day a  
far end at ~~the~~ pond





Netty

M. Bower ~~14/15~~

Swamp

1/2 in

Bowl

♀

10/10/00 No. 100

Group

C-1/10-100 (100 B. W.)

100

08/10/00

1/10/00

Bowl

1-1

1/10/00

89 mm (CP)

74 Red/ab, 100

W/Black Feep

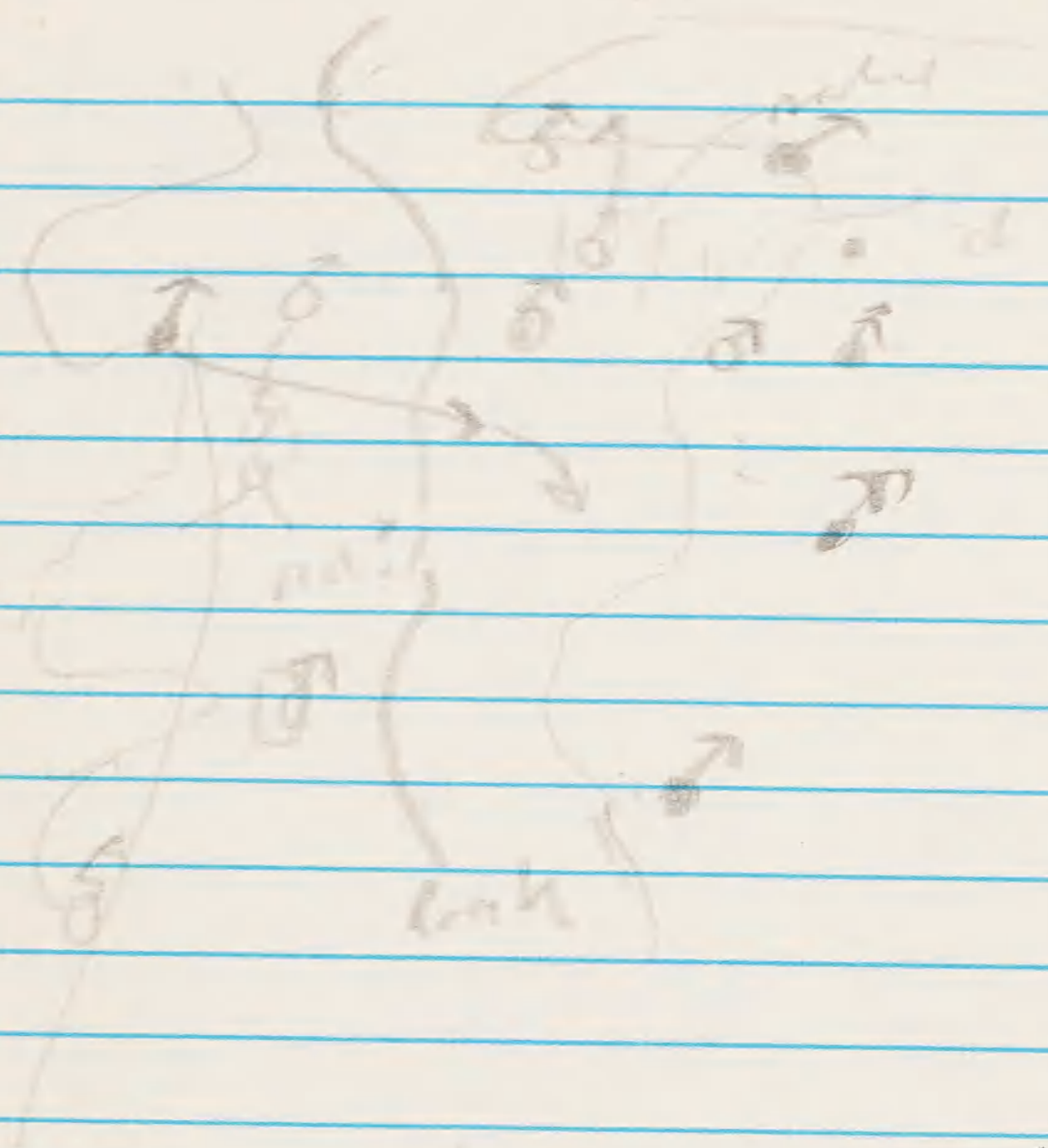
M. Bower

~~10/10~~

Red/w-6



Bow Lake

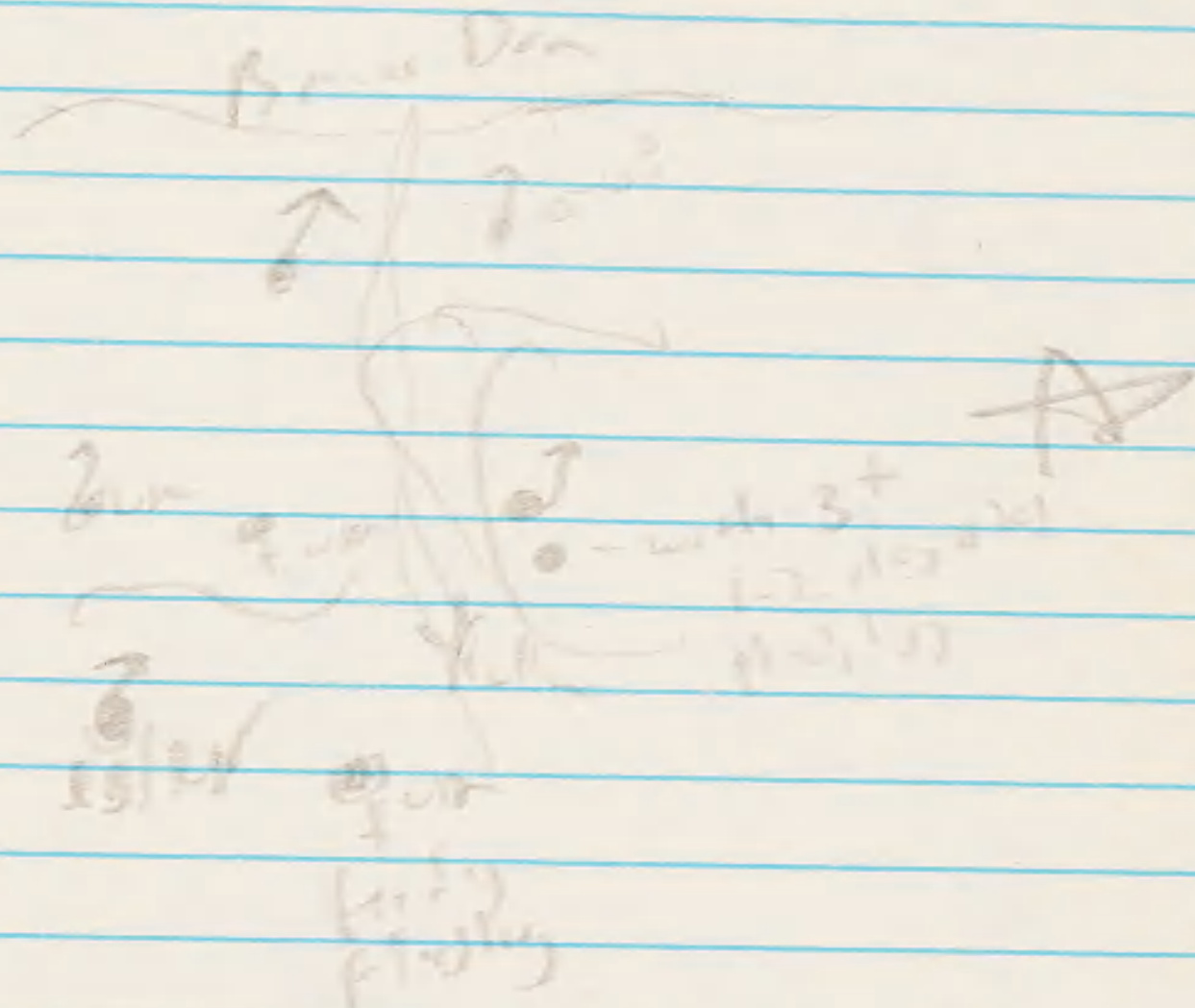


chase by song as he

W-gl Rnd

[ camp Bl 7/6-w  
near Hengluh 19.11

Sr. Sparrow grass

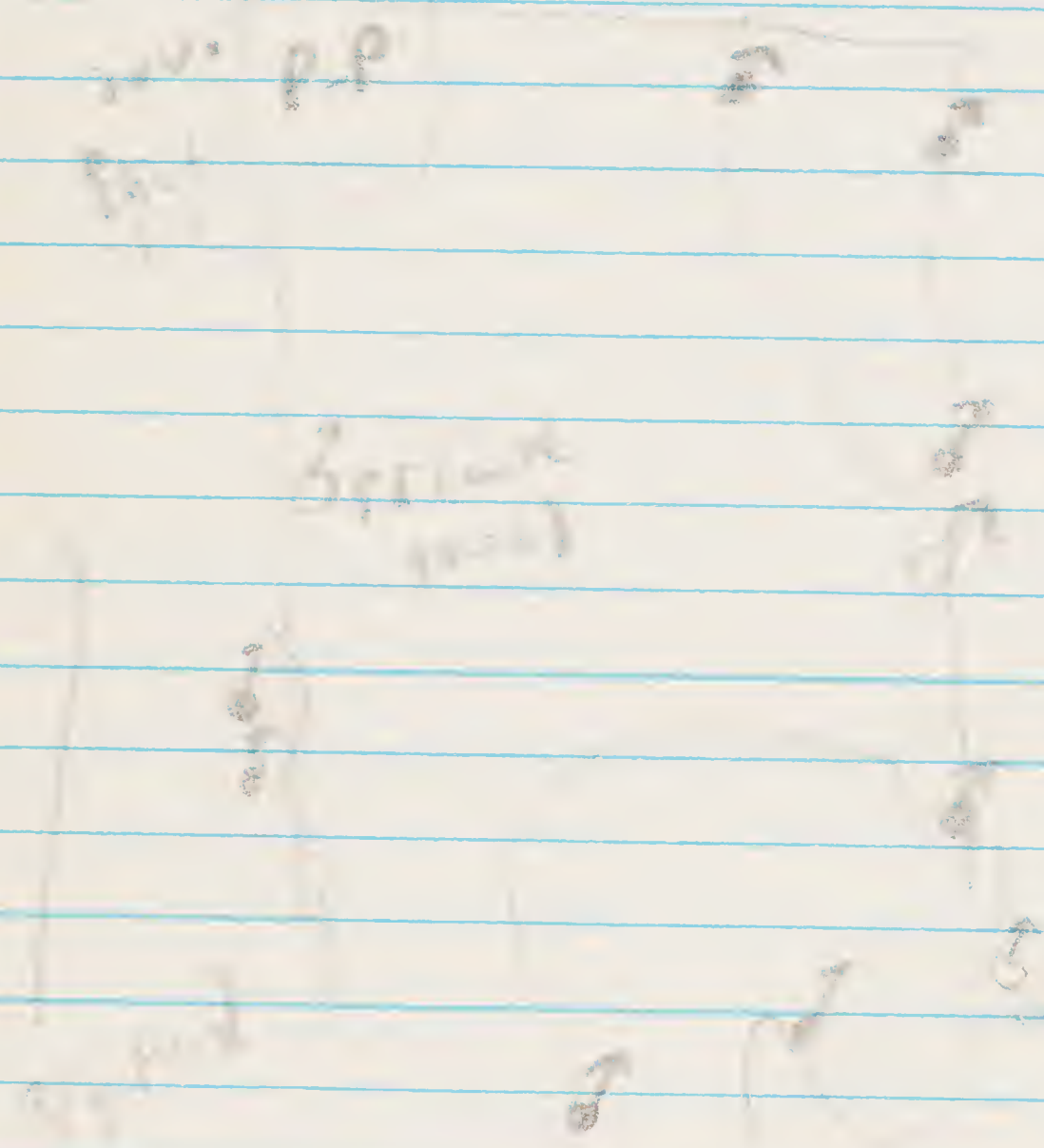


W/p of Sparrow grass  
Sparrow grass

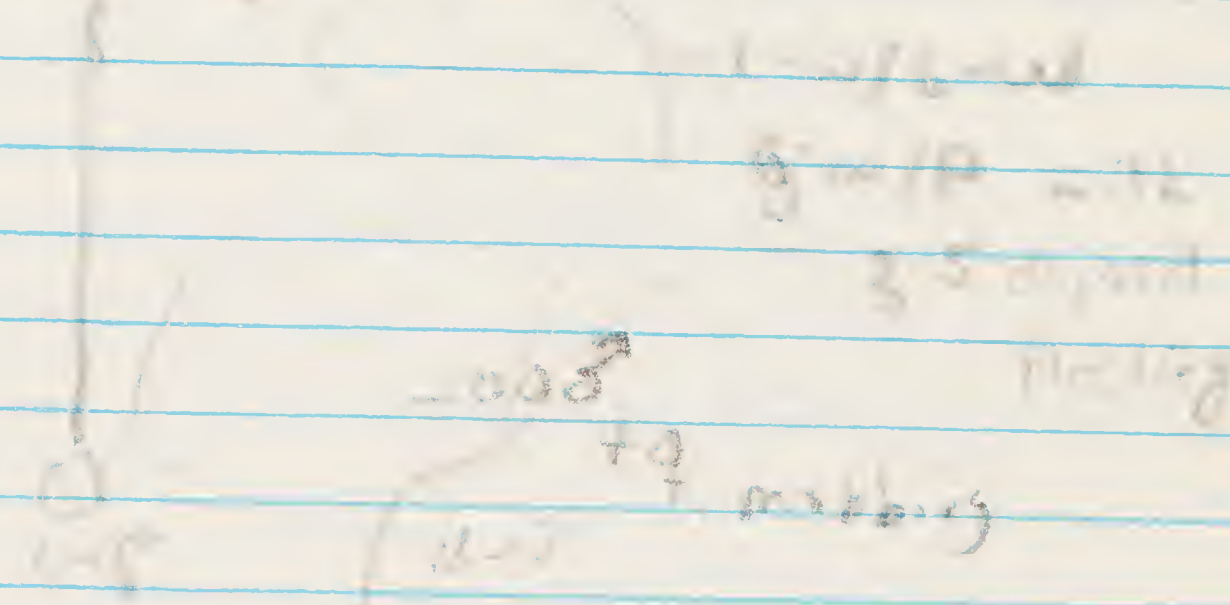
W/p of Sparrow grass  
Sparrow grass  
Sparrow grass  
Sparrow grass



June 3  
Field 1

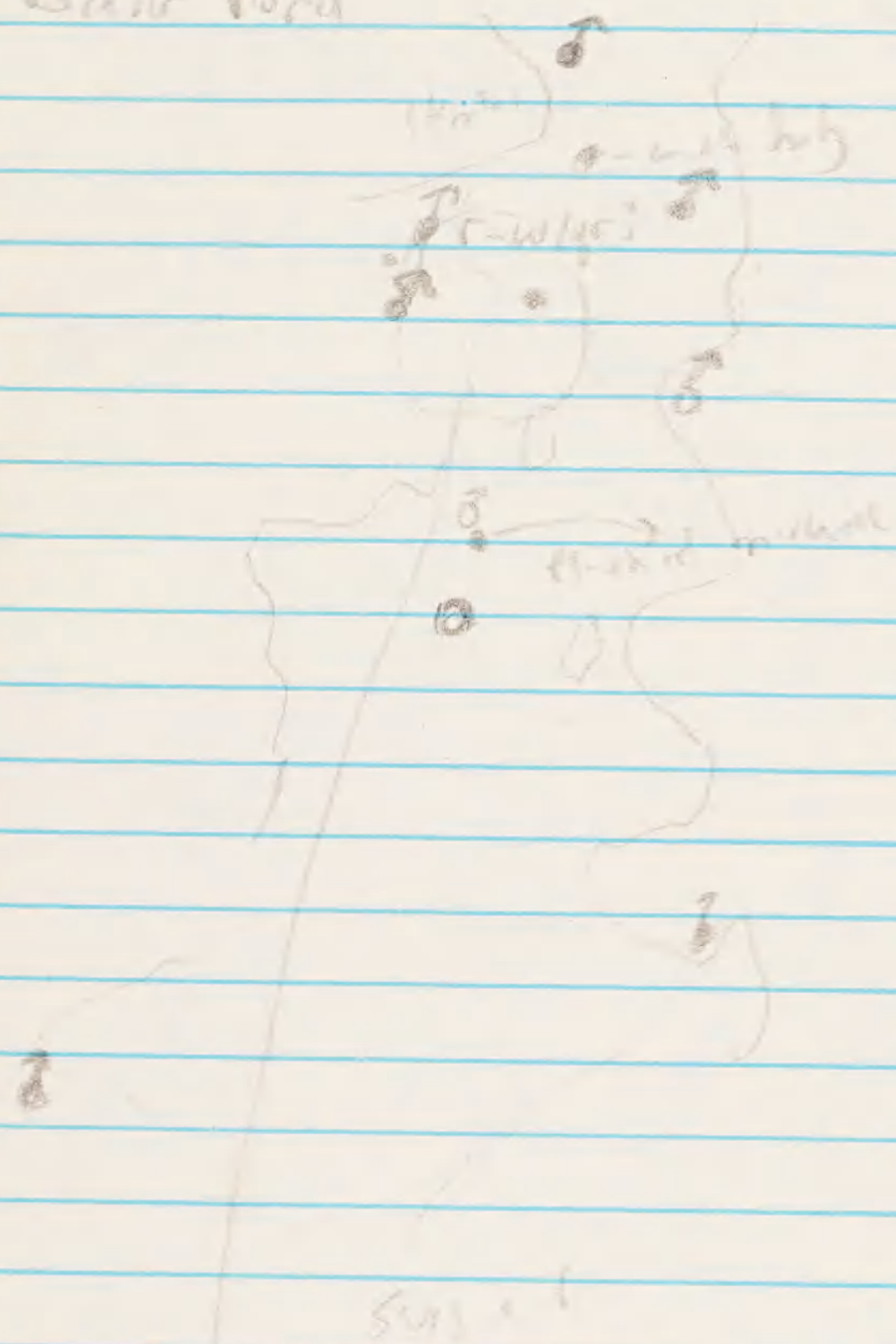


13.4.41

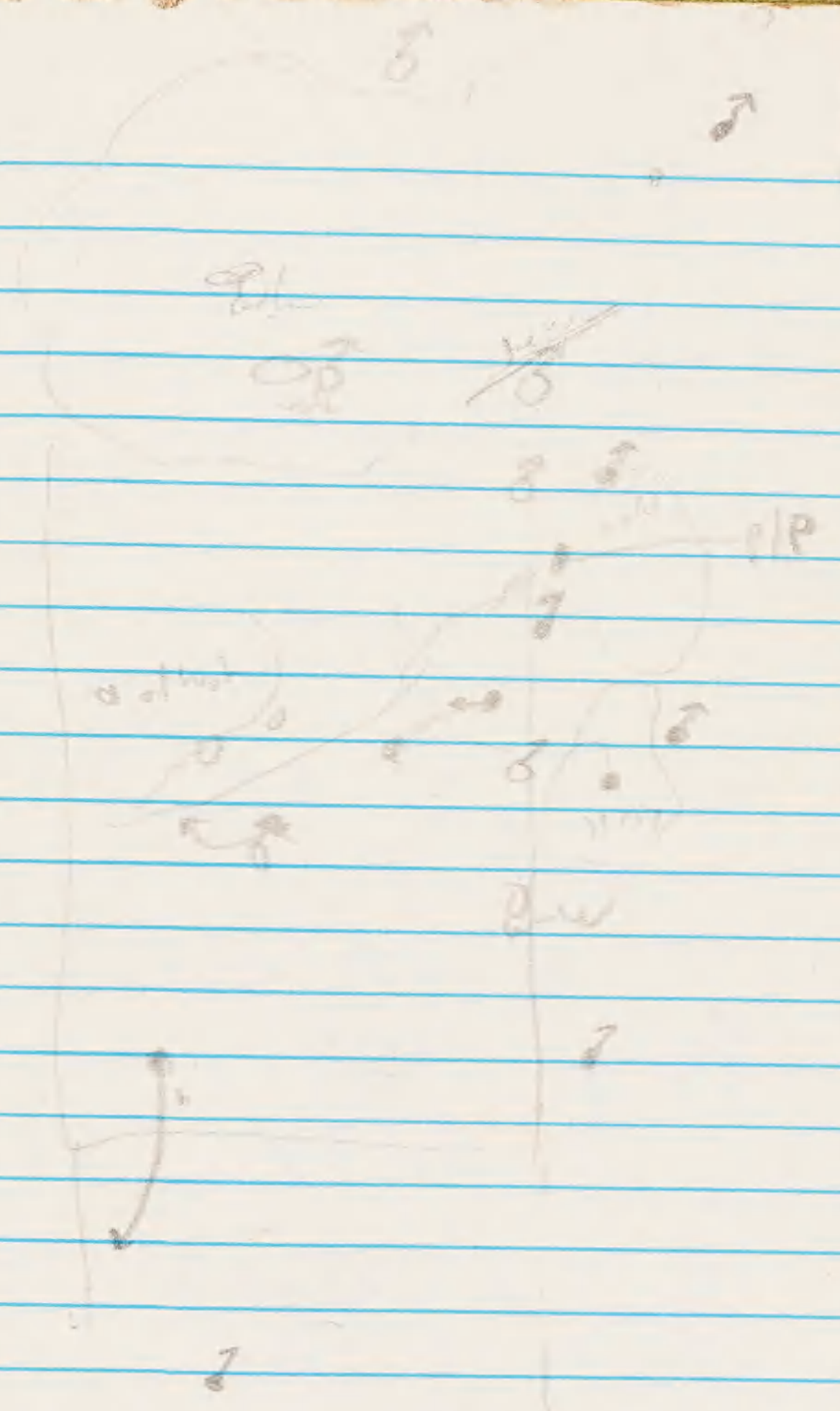




Barre Pond



1000  
hear't see this Sun yellow  
Still I got  
beet



0-10  
□



Henlock H.A.

dead 10/1/55

light green 3 crown

CP

10/1/55 70

Henlock

Swamp

g

10/1/55

10

black

leaves

light green

Brown-Dm 6.1/1/55

0/2-B

11-61

4 crown

CP

6.7/55

Relip

4/1/55  
(Henlock)

very light green

willow by Brown

Brown-Dm willow

Relip

1/1/55

8

3-crown  
CP

Henlock H.A. 8

0/1/55

CP

6.3/55

3 crown

8

B/R 4/R

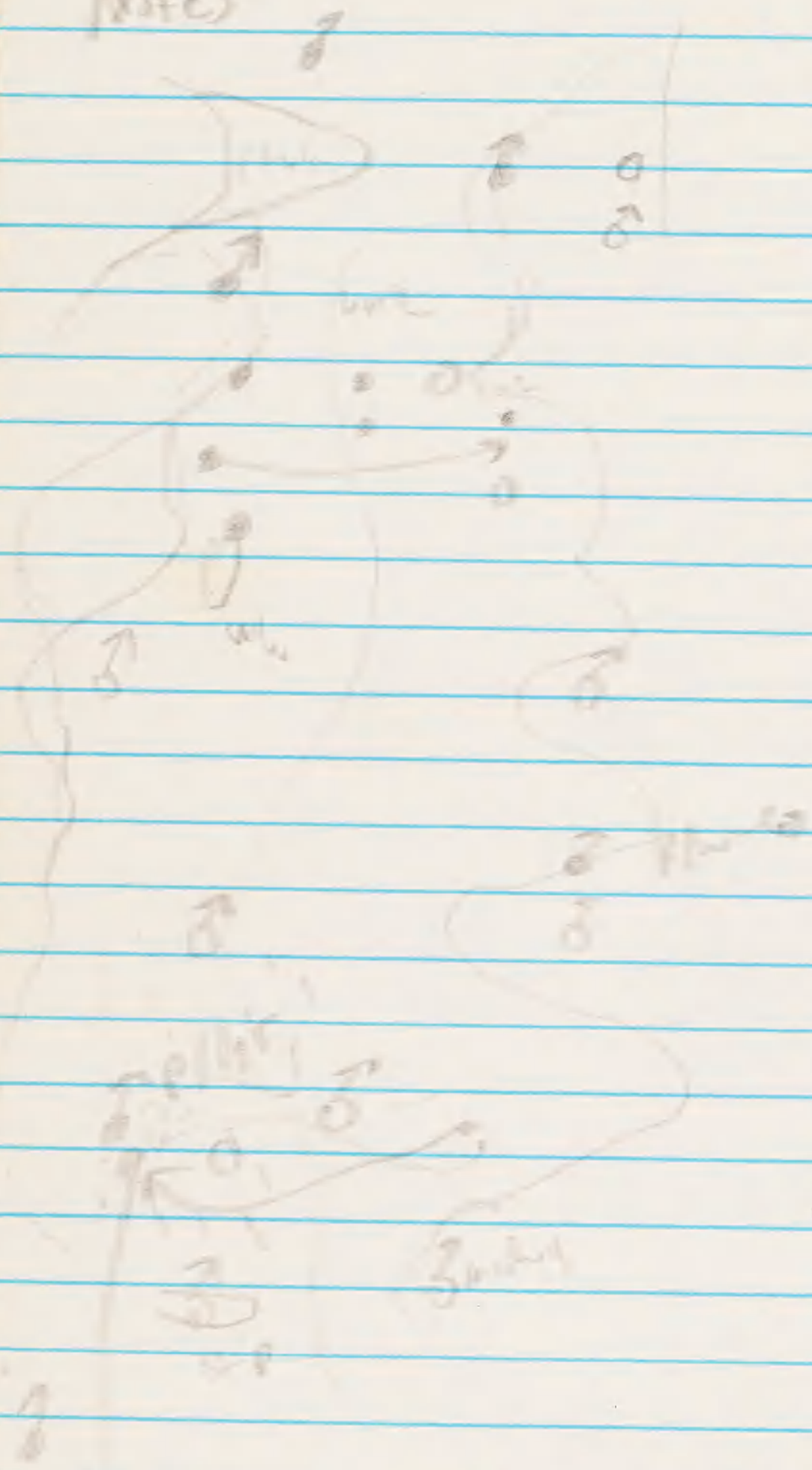
8

4 crown

6.3/55



Note



1.2 just fledgling  
bright color Mar

Trapped by gun to  
trap and put a  
hopper a lot  
visited 10 am -  
At 2:30 pm for day

Recap.

~~R-4/B~~ 4-6 B-E

M. & Beaver Foot

W-6/BL ?

dB/Lys Headed Hill

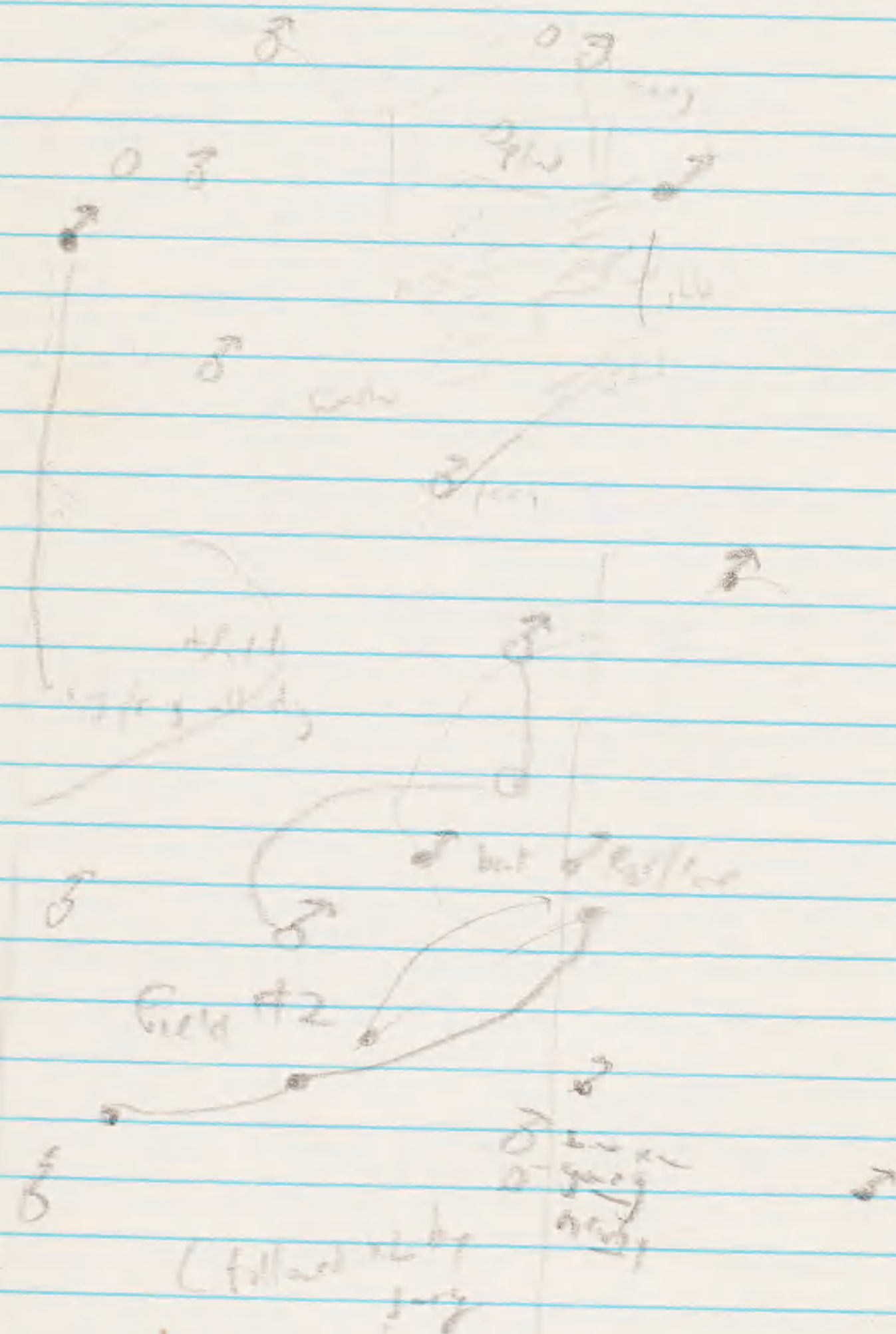
R-4/W Headed Hill

results -

Wh?/Red W/low

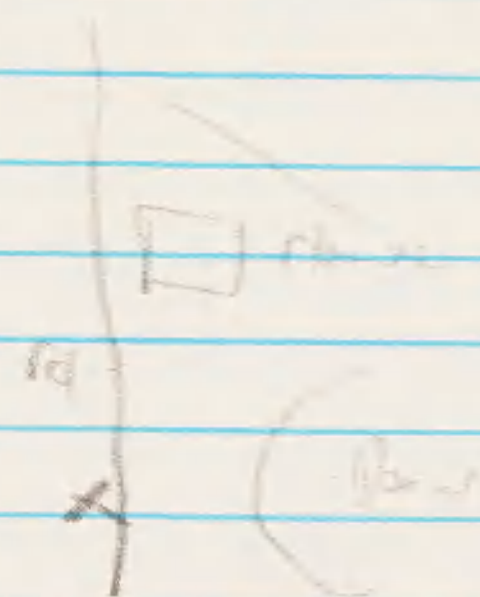


6/3 - clear & breezy  
afternoon



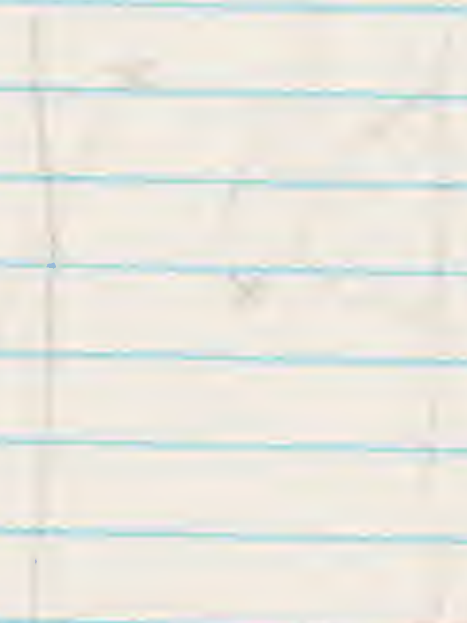
Just saw more song  
feeding on the ground  
this year

Song Sparrows in the garden  
just for  
k.d.





0/3 b. c. r. y.  
 Easy recap  
 1/2 hr mid field?



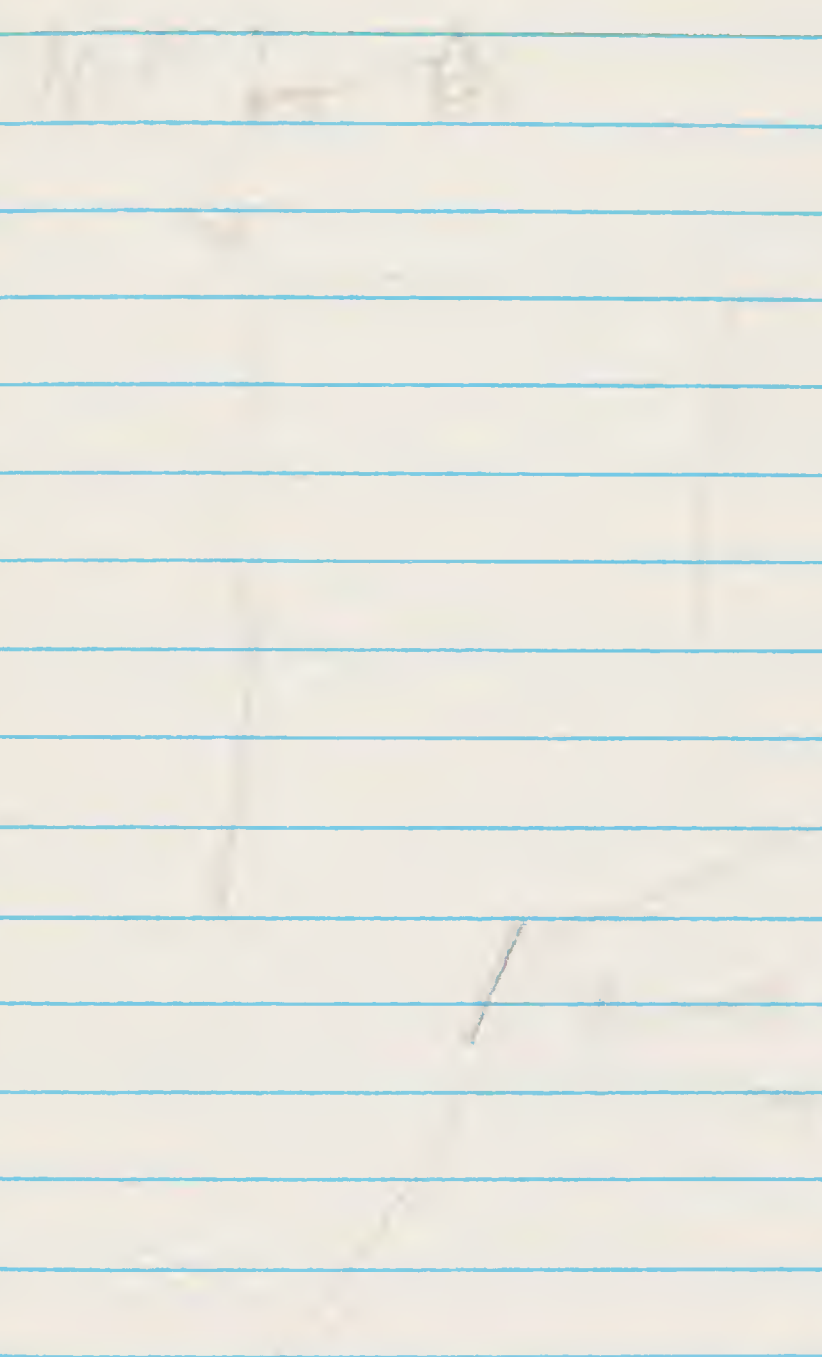
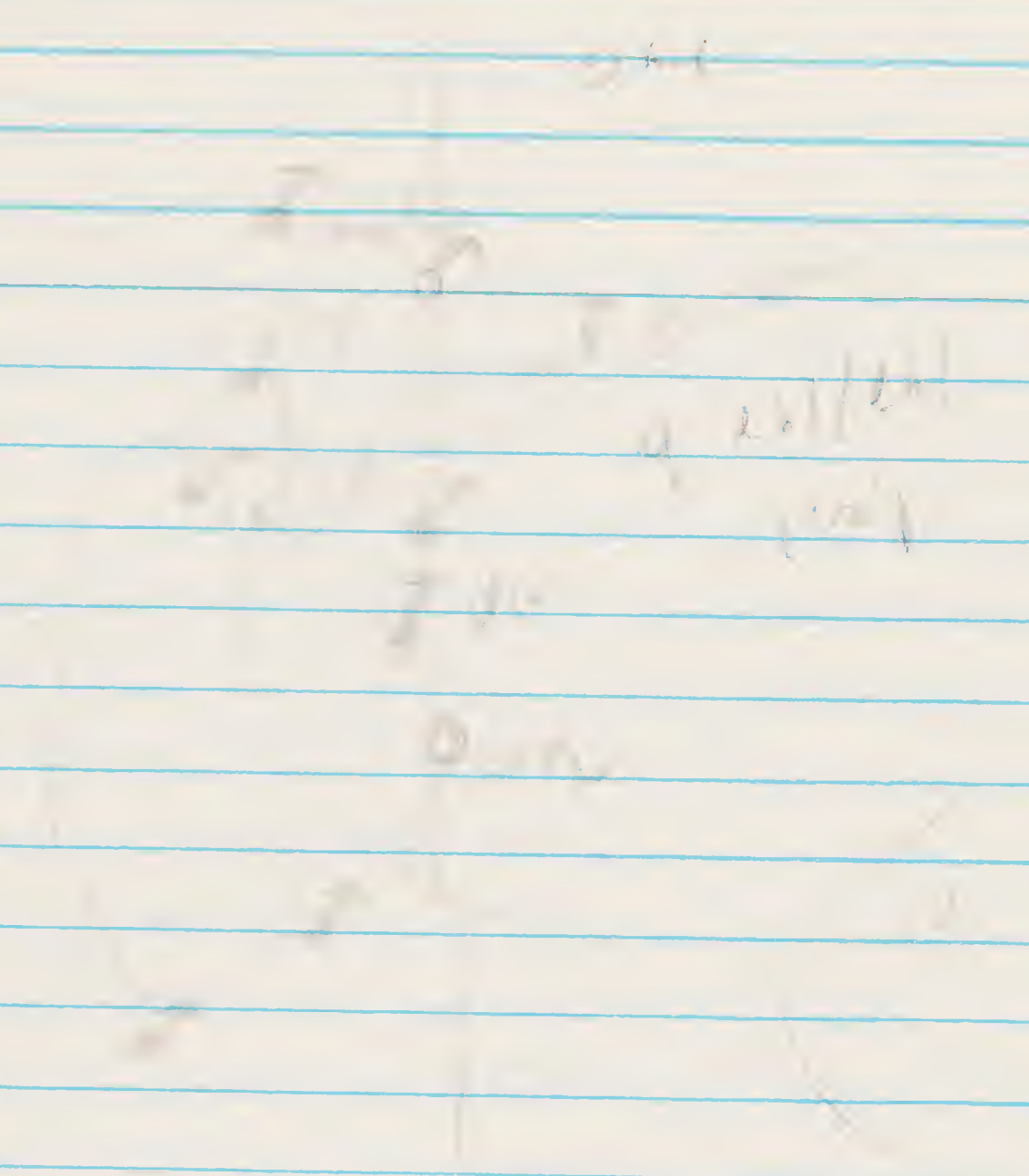
0/8  
 1/2 hr  
 1/2 hr  
 1/2 hr

Swamp 2/3 W. side ♀  
 1/2 hr 1/2 hr  
 1/2 hr 1/2 hr  
 1/2 hr 1/2 hr  
 1/2 hr 1/2 hr

Swamp 1/2 hr 1/2 hr  
 1/2 hr 1/2 hr

0-1/2 hr 1/2 hr

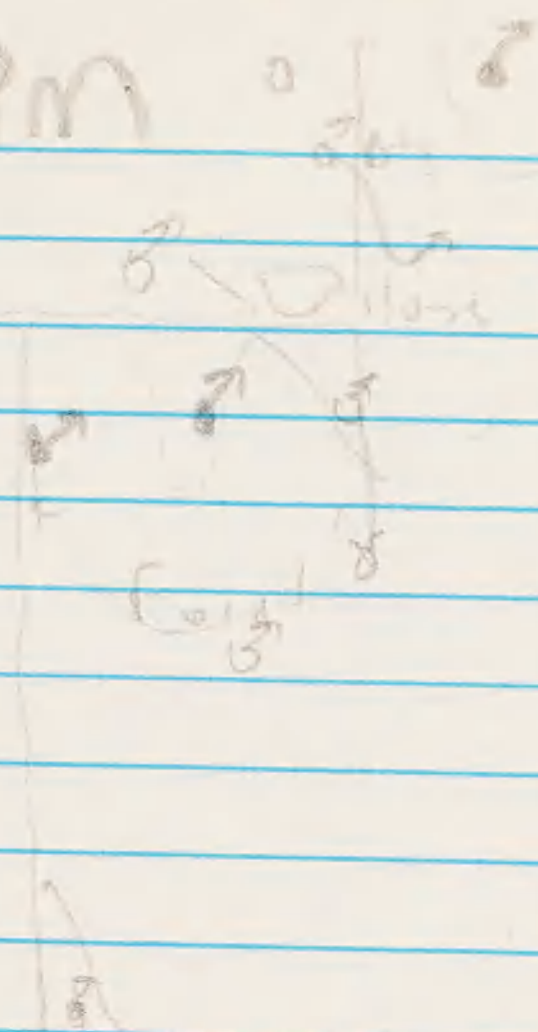




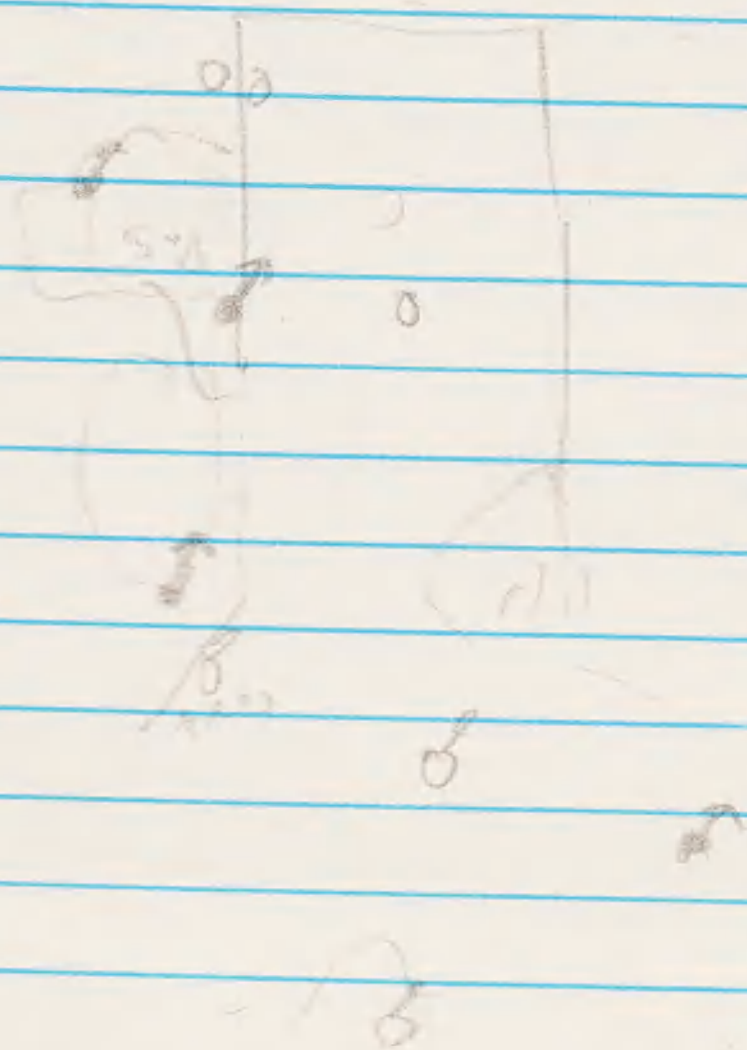
T. 100 ♂ → BP 100 100  
 T. 100 — BP  
 T. 100 100



6/4 PM



Vict 2

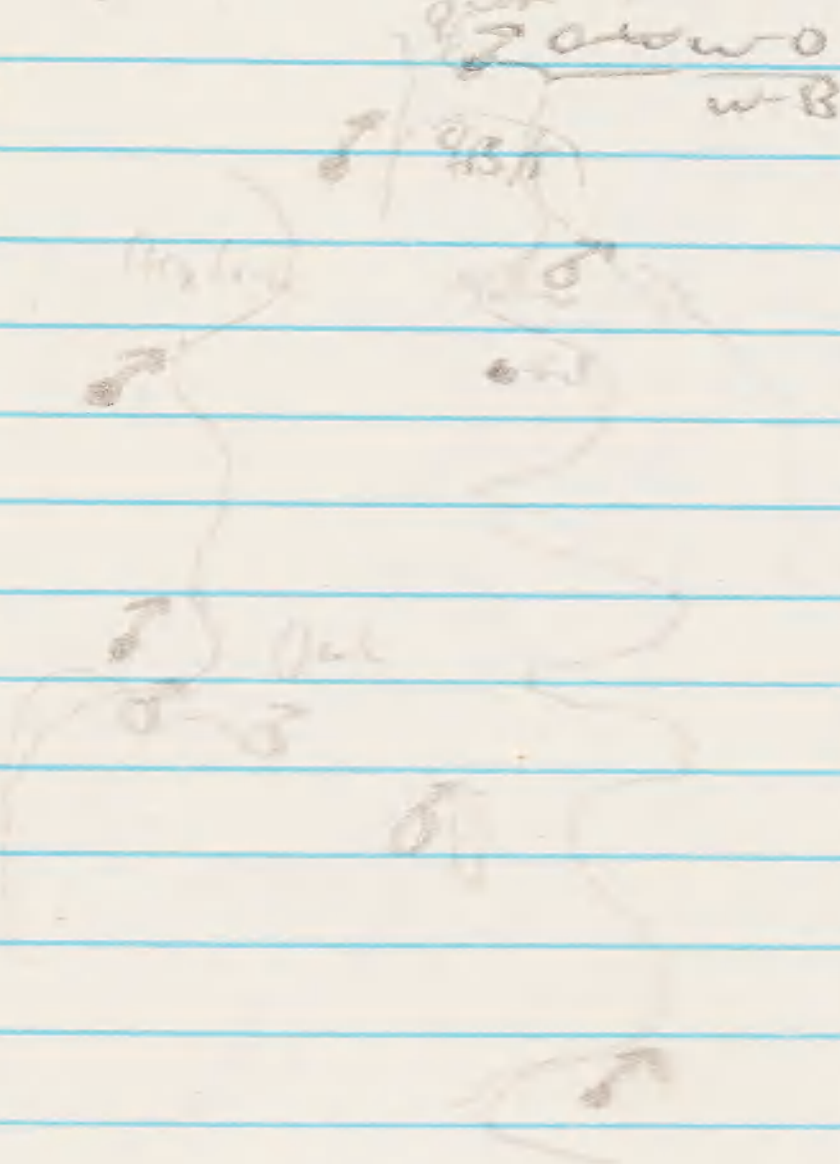


June 5

Fairly overnight has flooded  
the area - dog pond is mostly  
flooded

Shrimp 2 is all under water  
as is much of - Beaver Lake (2-3" deep)

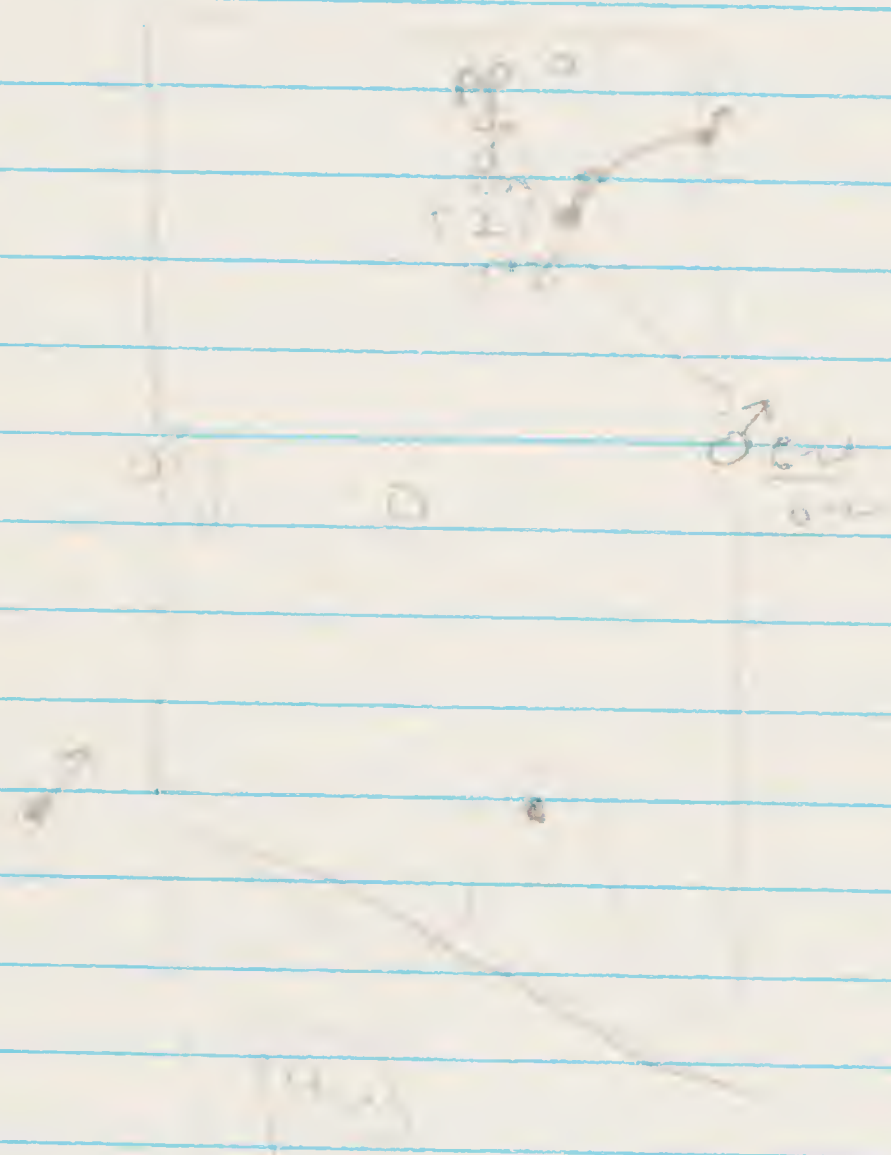
Everything is basically the same





June 6

Field 1

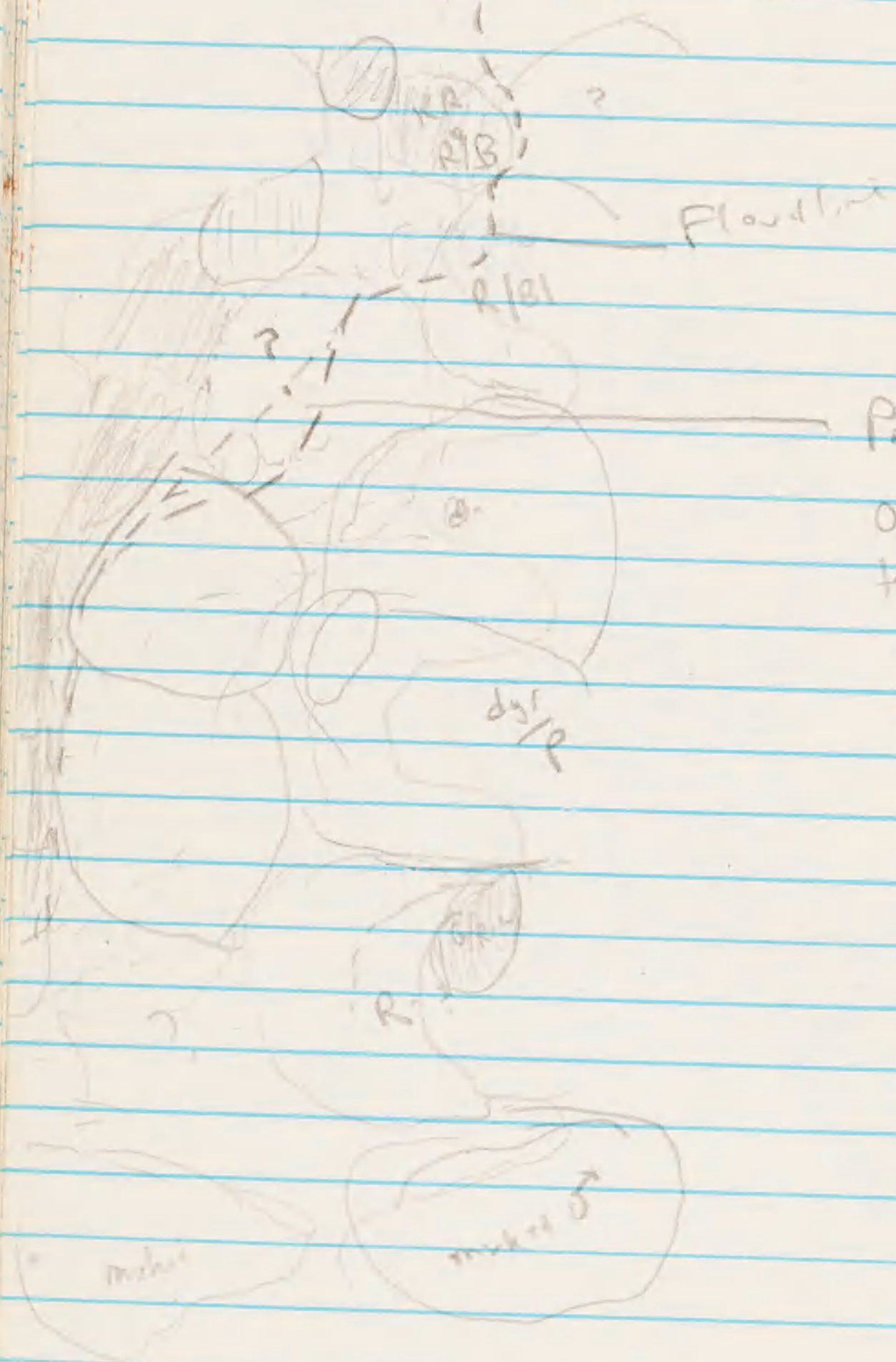


High

Design in the sky  
Sp. 1000



June 1964, continued



Previously  
occupied by  
territorial song  
sparrows  
now  
Tenent  
unoccupied

Total area  $\approx 5.5$  ha

length of transect  $\approx 800$  meters



From June 5-12 it rained

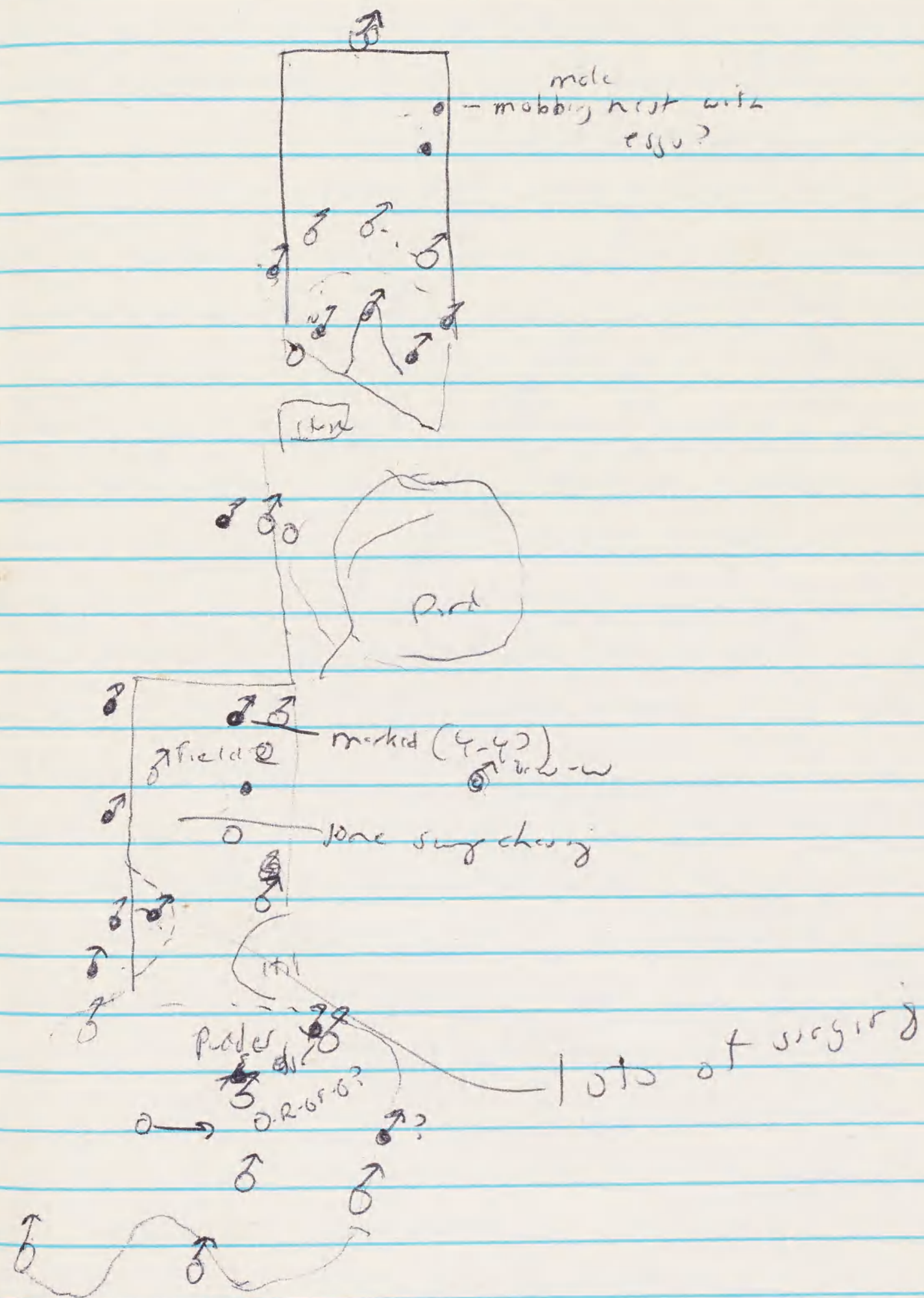
9 inches (beginning with heavy rains  
5-6th.)

causing massive flooding!

I returned 14 June to find  
the flood, mostly had receded &  
leaving wet & pooled areas in  
its wake.

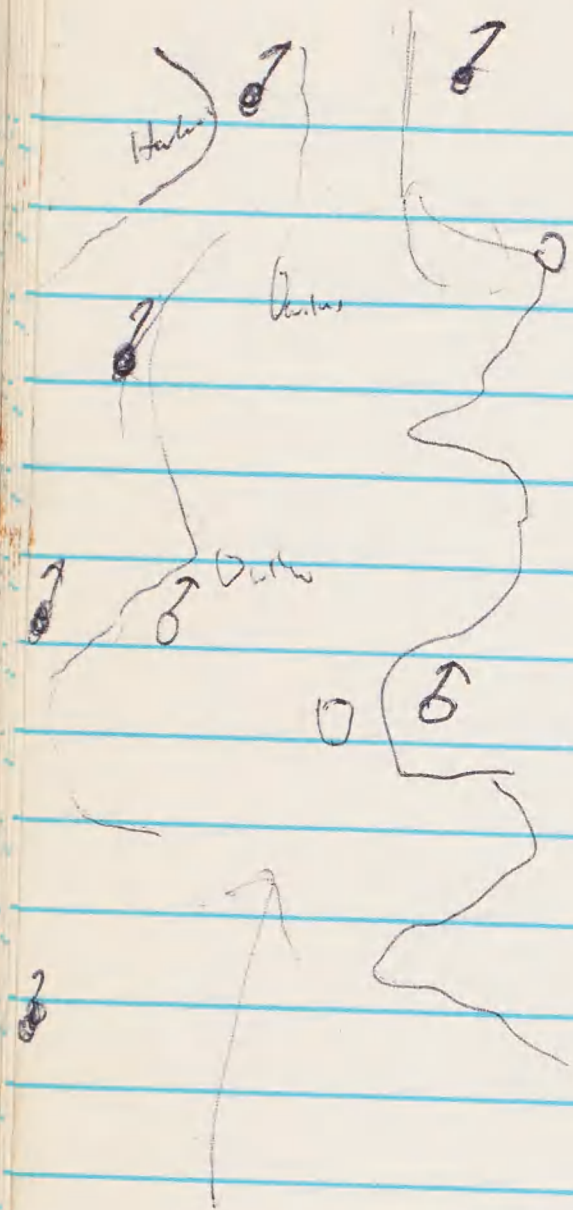
Gene was out on 13 &  
saw that Don Vito's pond was  
massively flooding so floody  
waters receded very rapidly.

14 June (cont.), 9-11:30



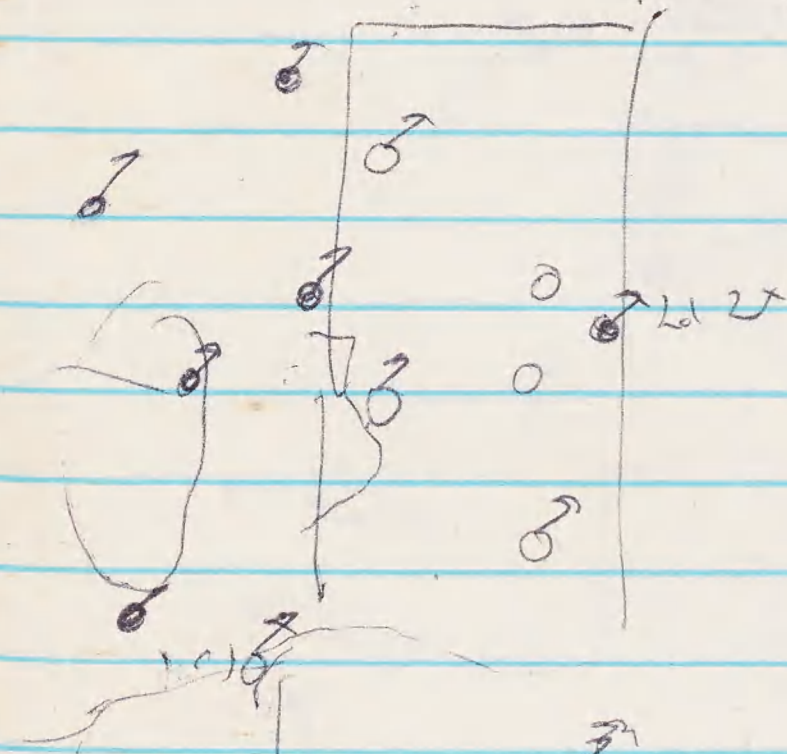
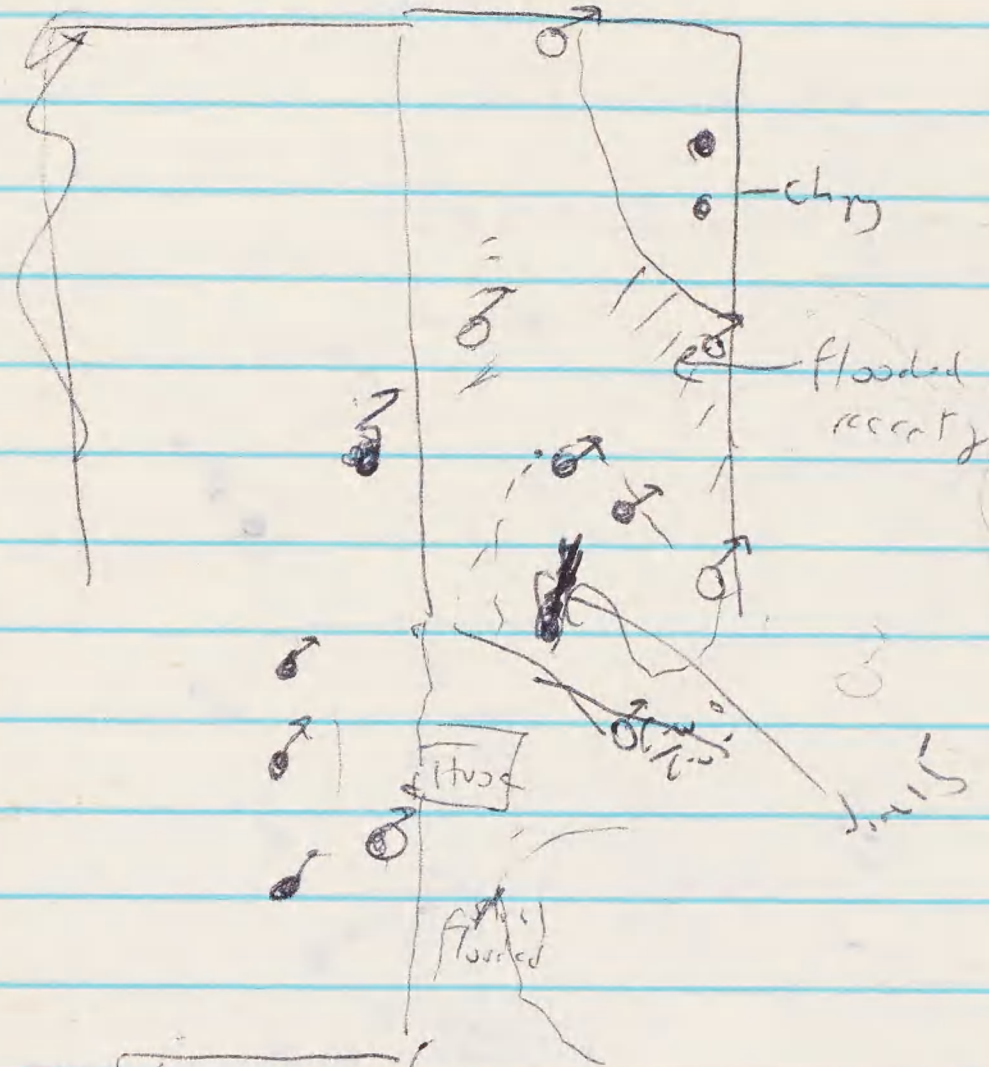


Lehe Bed



all covered with silt from  
flooding + very wet  
but not actually  
flooded except  
in pockets

Afternoon of 14 June  
Field 1



4553  
Volume Survey  
of PL

3000  
05.00

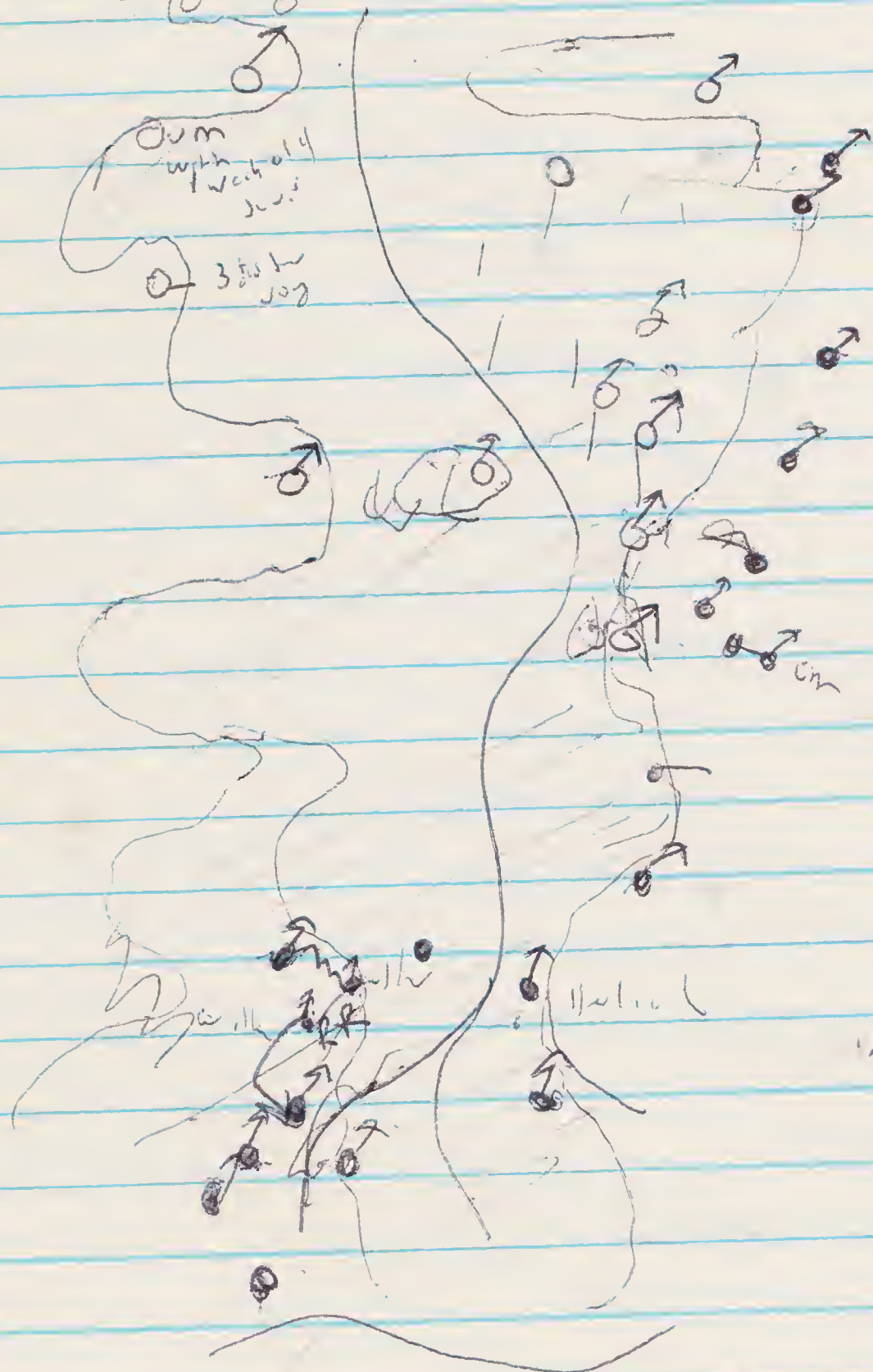
lots of singing in Swamp 2 by Swamp 1  
has fledgling I think



15 June Fair weather

Went out about 11:00 am

looking for ♂ Brown Red cree



included  
blu-brn  
pm  
also

Brown ...  
shed all ...  
under water ...  
better ...  
flooded

Sunday sun with -  
Monday net Swamp 2

insect sample

Tuesday Net Pond area

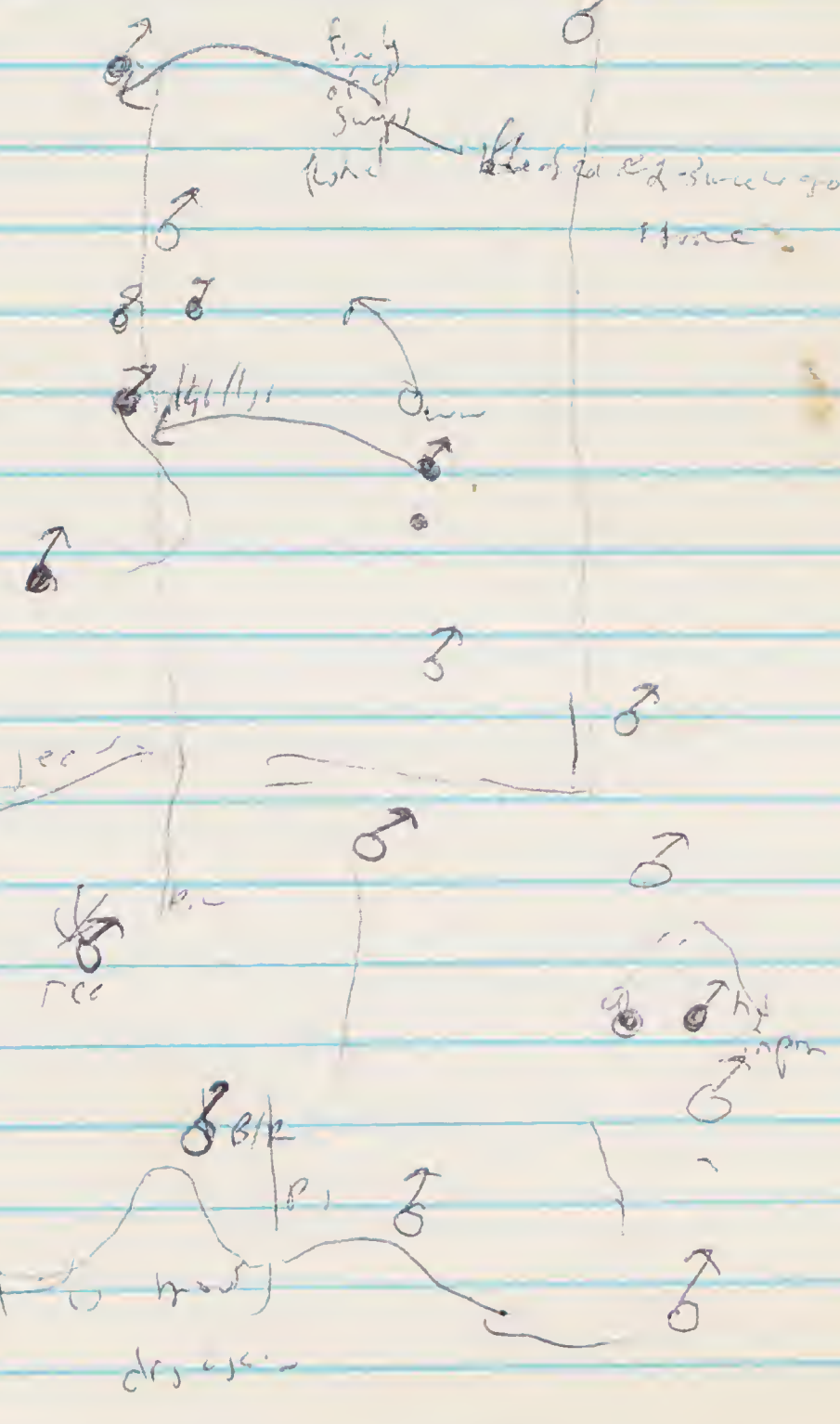
Wed

insect sampling

Thurs Net Field 1

for collect plants

Sat collect plants





June 16

Swamp 2 netting

♂

2<sup>+</sup> crown

W-R/P

66 87

62 mm

CP?

Swamp 1 crown BP ♀

Bl-W/P 66 88

87 mm

W-B/Bl recap

(O-O recap (same net)  
BP ♀?)

♂

3-crown 60

CP

(duller) but on road

R-W/B 66 89



Sw  
 0/R  
 Jan 1 R/O left 66 90  
 60mn

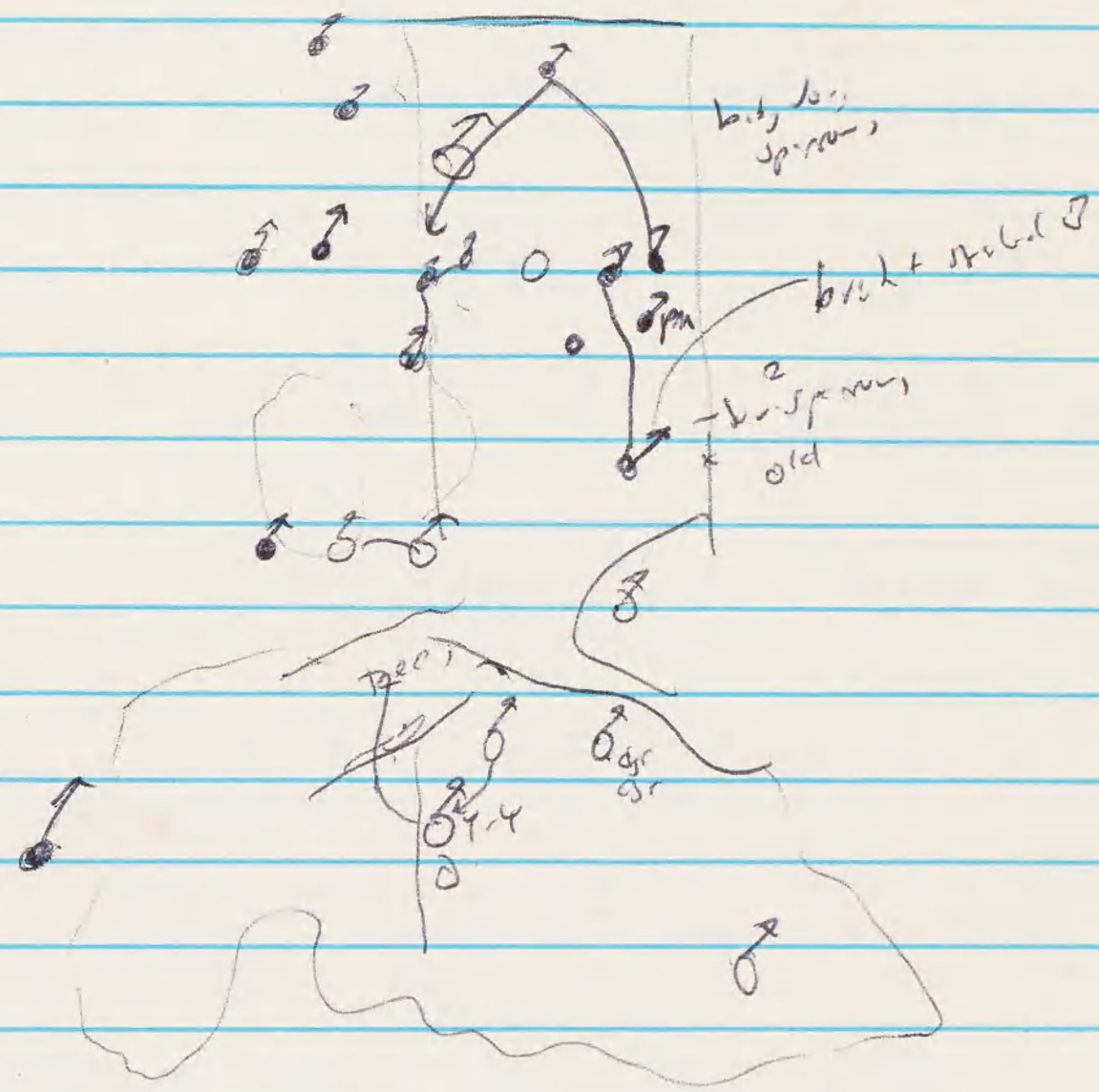
Sw  
 Jan 2 R/B left lost

Jan 3 Sw  
 dB/R left 66 91  
 Mid-Swamp 2

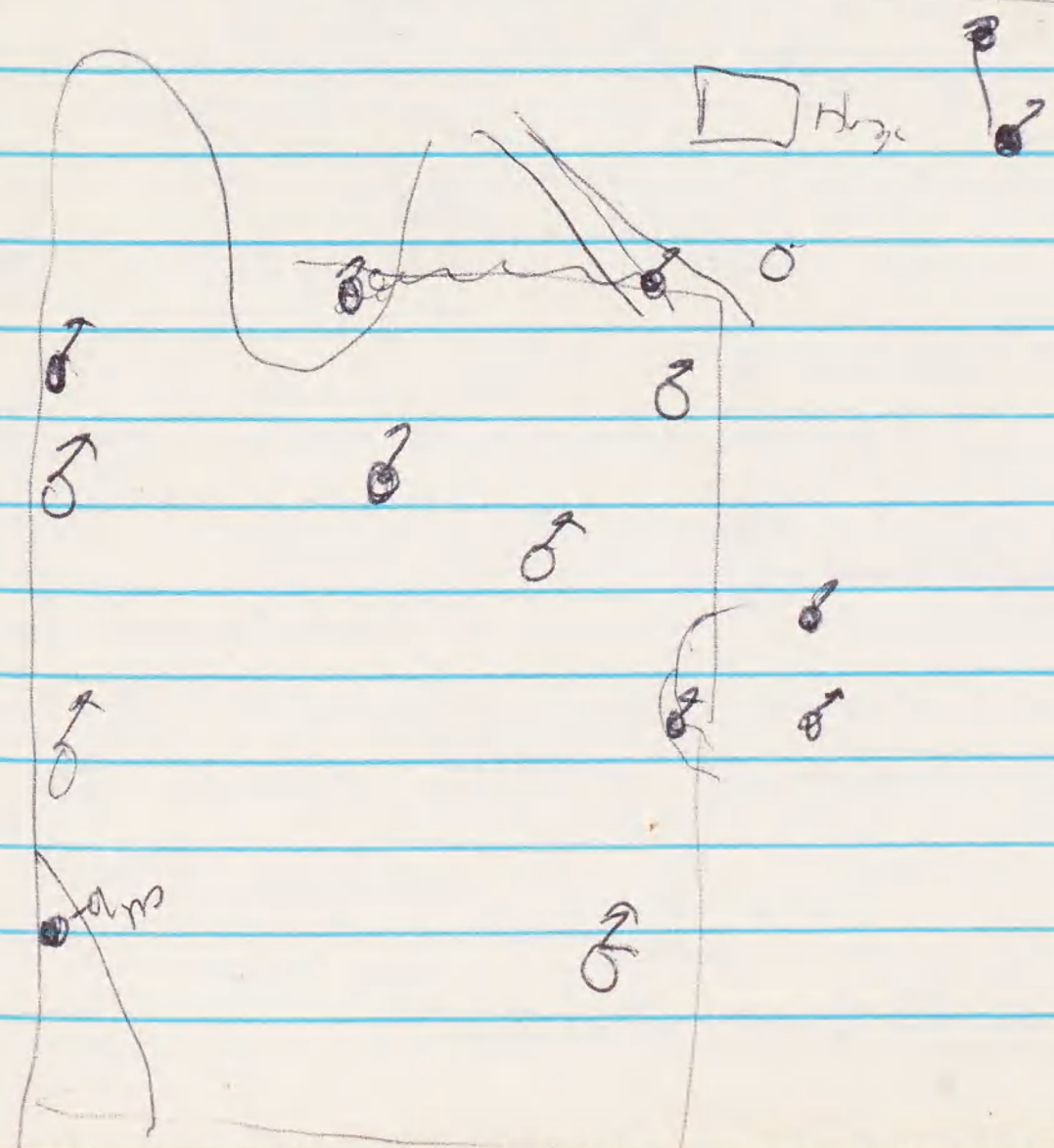
(0/R - w/ map)

Notes

Feeder



Field 1





Afternoon of June 16

Flooding from Muddy creek -

broken up into Vito's pond

& into Field 2 - This area has

been the most continuous flooded

area in past 2 weeks & has

had several Swamp Sparrows take over

(Chow still present) all are marked

although I've only seen 1st/1st band

I let one on rd side of field this

PM

Mostly it's been too windy

Nothing

6/17 Field 1

Song

♂ (cp?)

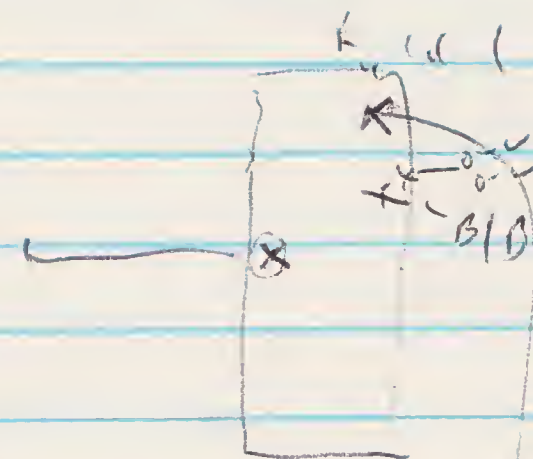
65m

Bl-w/P

6622

by House

Swamp



♂ cp

f

crown dark on lower edge

62mm

66 12

blue/yellow

Song

Pond side of house

♀

bg

w-o/p

62mm

66 93

Song

recap R-R

Swamp

recap 6-10-3

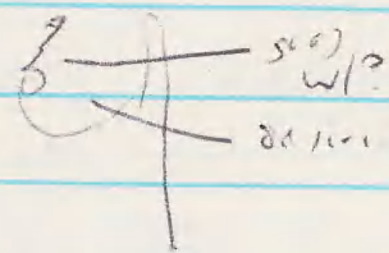
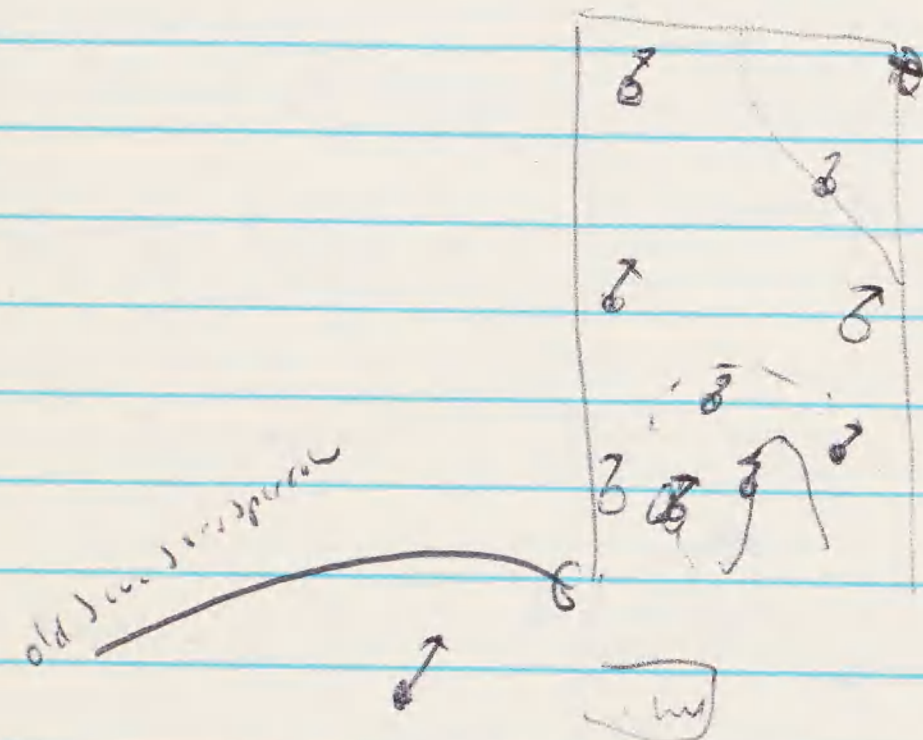
\* Swamp

recap dB/dB

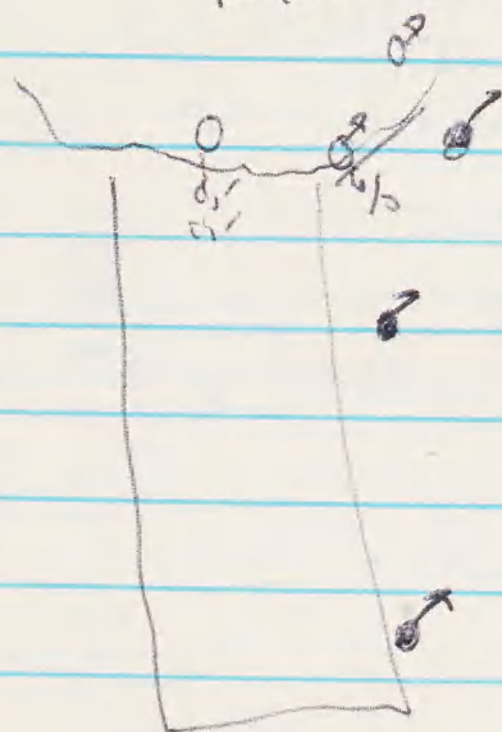
- 2 crown ♀ BB



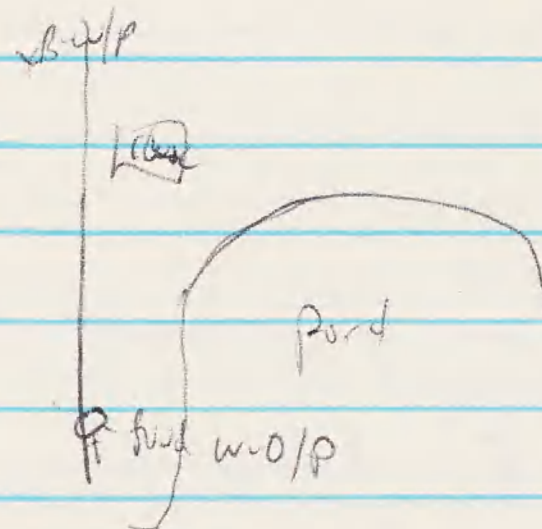
Notes      flooding down  
 despite short thunderstorm last night



field not flooded



Scars  
 old low by camp 2-3 weeks old





June 17 - Sunny & breezy 70°

2 = 500  
market supply

Sa 1 Field 1

lost 5<sup>th</sup> horn, (5<sup>th</sup> mm)  
5 fls,  
4-5 beetles,

Sum 1  
(tiller 1 2" grasshopper  
5-6 flies  
4 hoppers  
beetles)

Sen 2 G-L b-L hairy

L 2 - Rk kasy

Sr 3 O/6 Terry

S. 4 RB/R

Some green m-rds?

Swamp 3      Swamp 2  
4 grass hoppers

### Step 4 (Binding)

10 things



Notes for - This here

dried out a lot.

Dry Pond is mostly all the

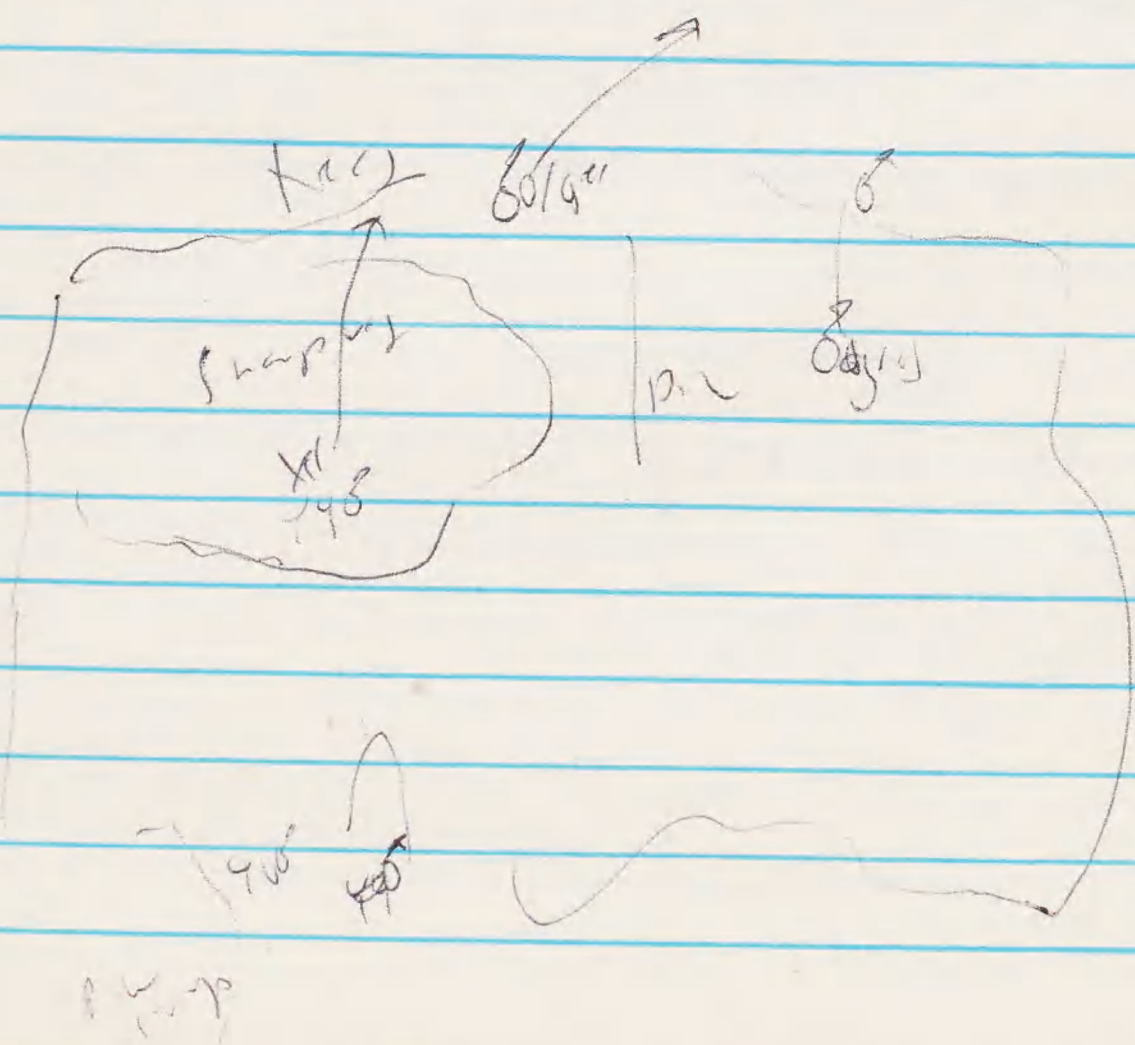
way across side creek

Now! much more dry than

on Saturday.

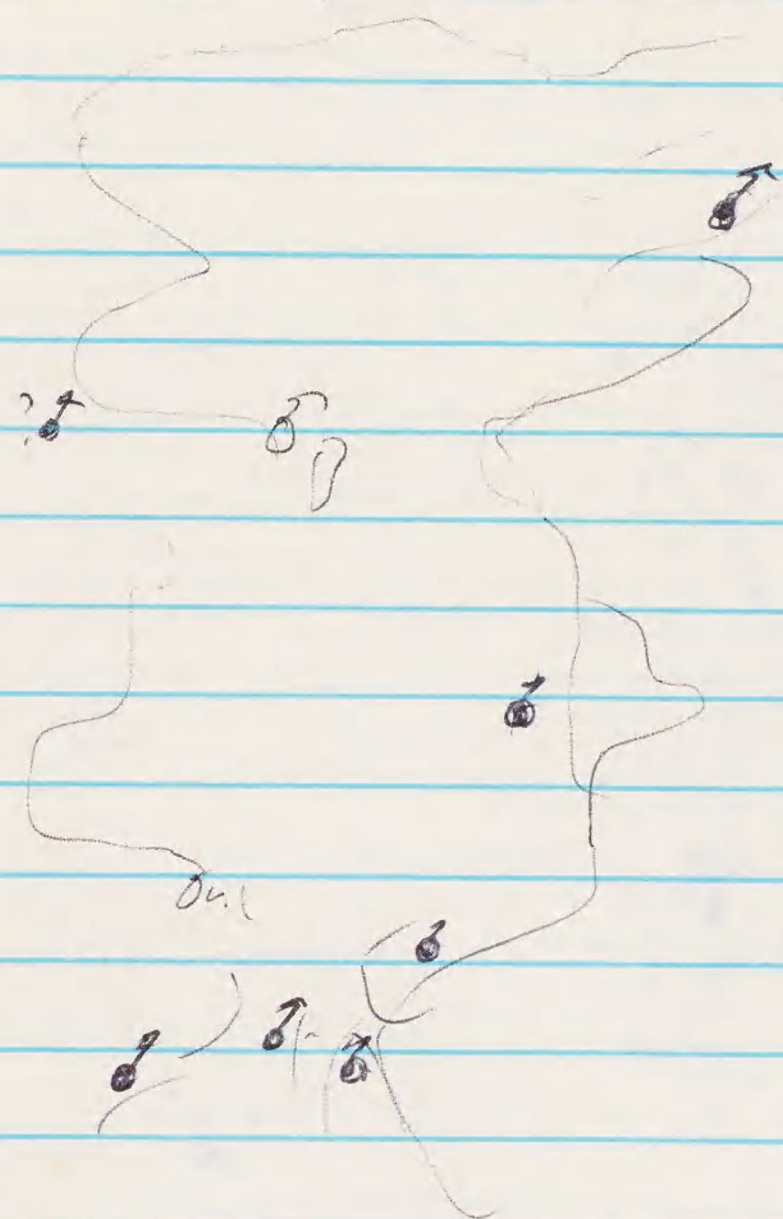
Field 2 is not flooded.

Nor is Beaver Lake.

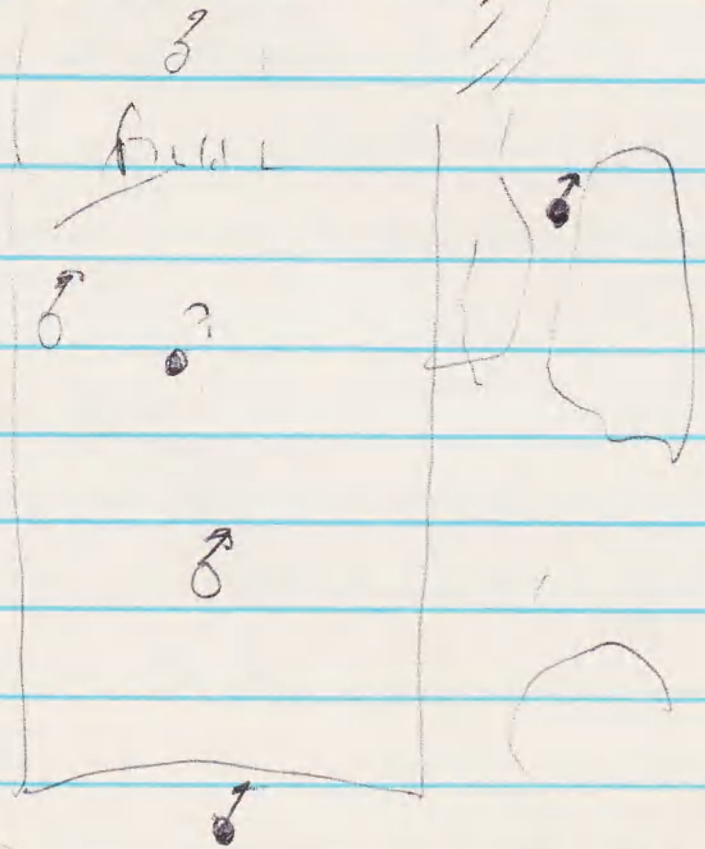


100  
95  
90

Quiet on Beaver Lake



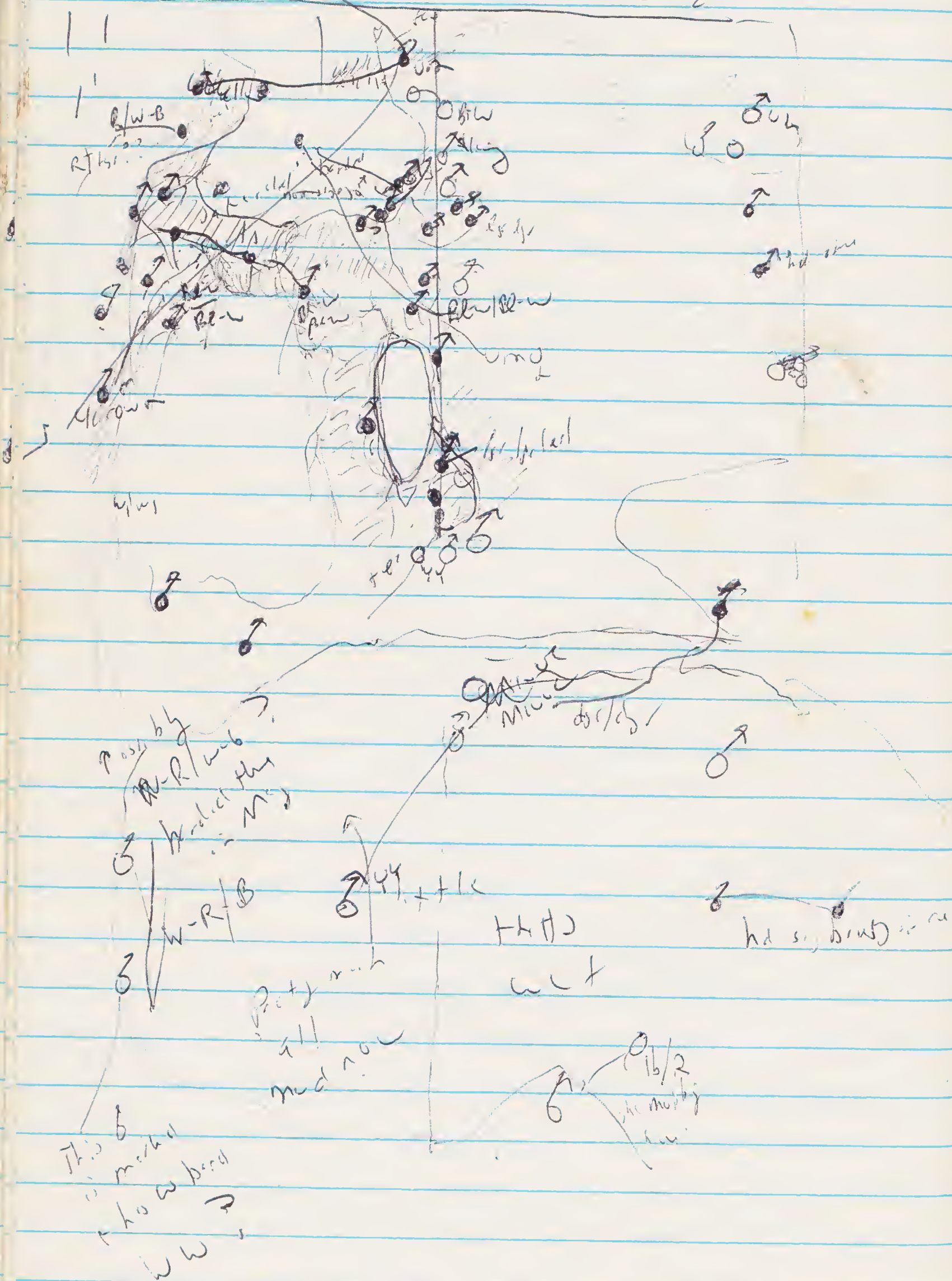
No signs of



No signs of signs from field

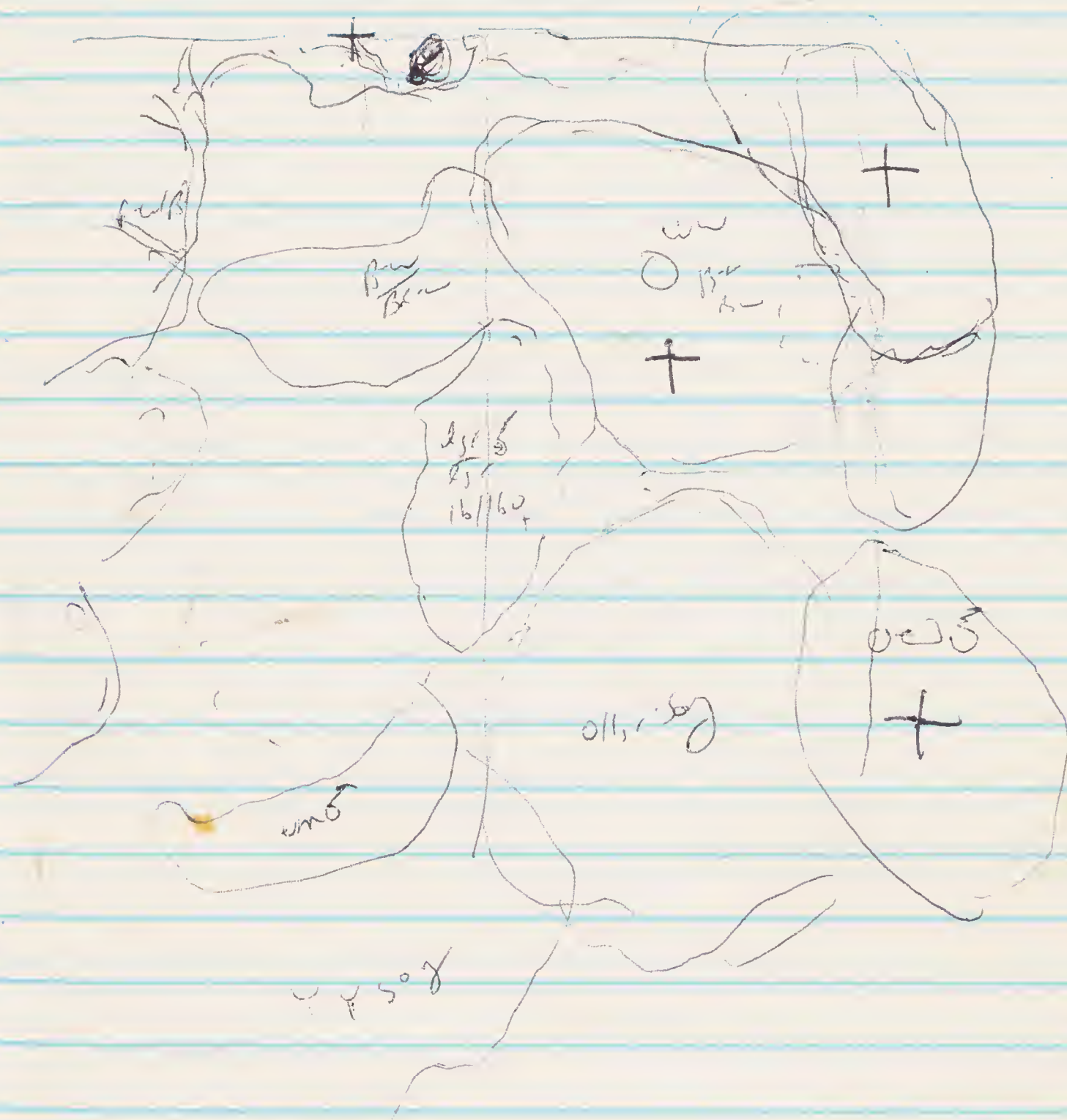


18 June PC cool my  
field



idealized being myself

$f =$  recursive  
with you





insect collection in River Lake  
(50 sweeps/sample)

Song 5

2 large flies  
5+ Monids  
1 Panzer 1

Song 6 = 6 loc thins

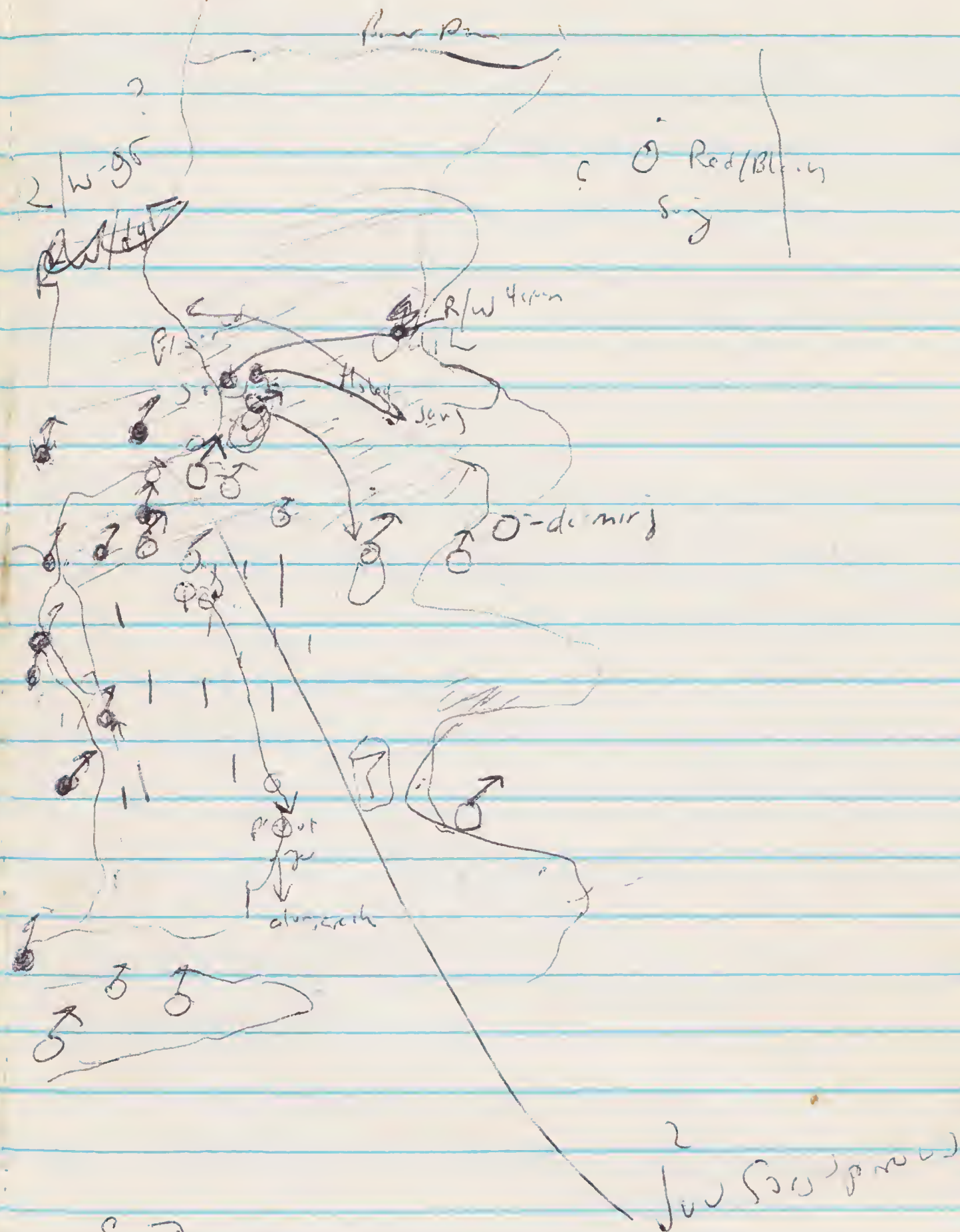
+ 5-10 Monids +  
of thuridys

Song 7 - Transper  
2 Monids last

Song 8

Song 9 - damaged veg  
2 thins last

Song 10 - (partly) damaged veg  
1 thin  
1 cup  
2 thins last



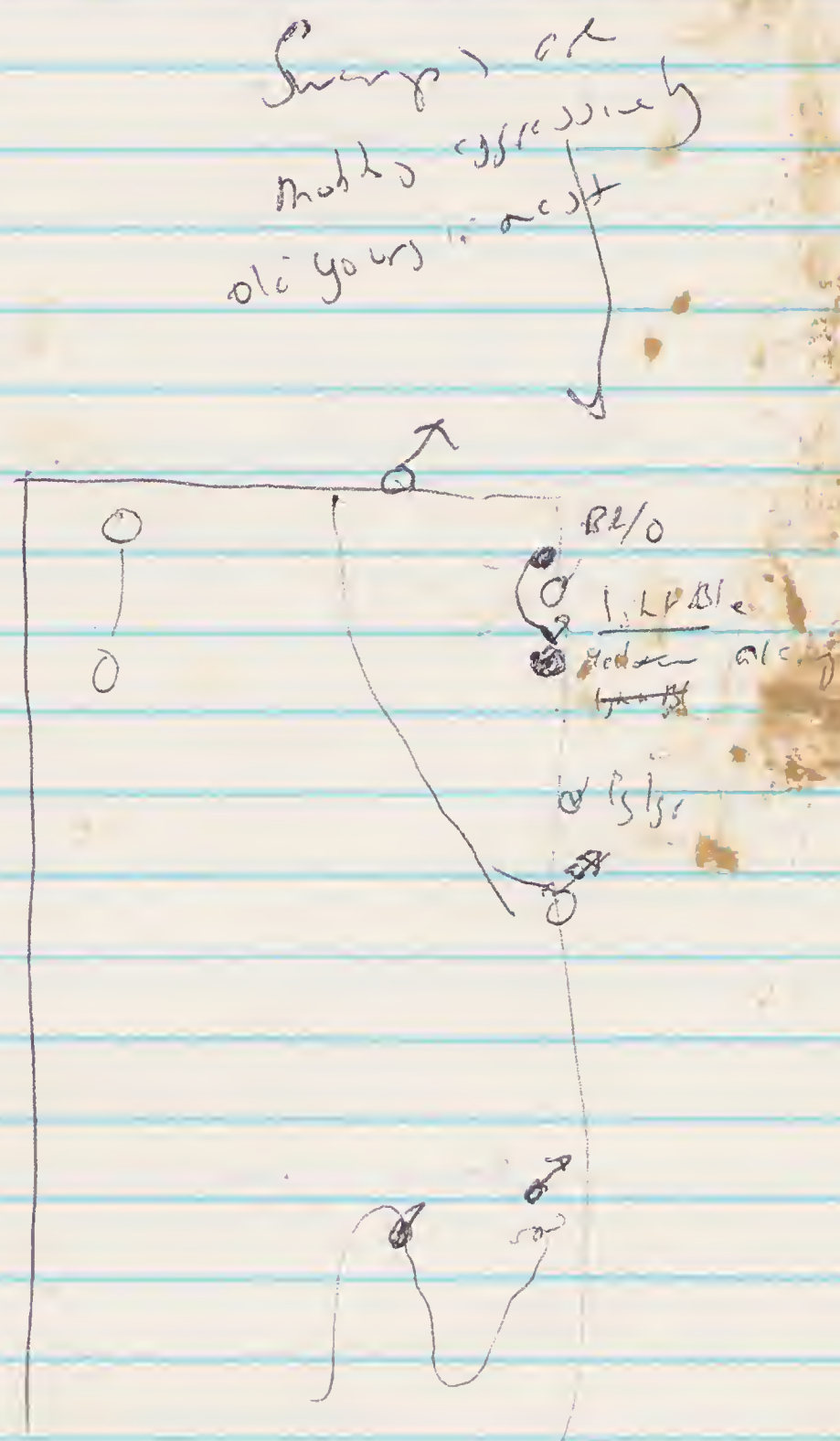
Song 11 - last 10 thins  
(rim)

Song 12 11 thins + 1 d. med



Res,nted R/w-gr the  
bird that spotted to  
other side - has  
a terr. by mid-Brown now

June 19 Field 1



June 19 Overcast ~70°

soil temps field 1

p-p

Dry

wet corner

14.1

15.2

13.2

15.5

14.8

14.3

15.0

14.5

14.7

15.5

R-R terr. by

over/under terr. by

14.8

13.6

15.4

13.2

14.6

13.2

15.7

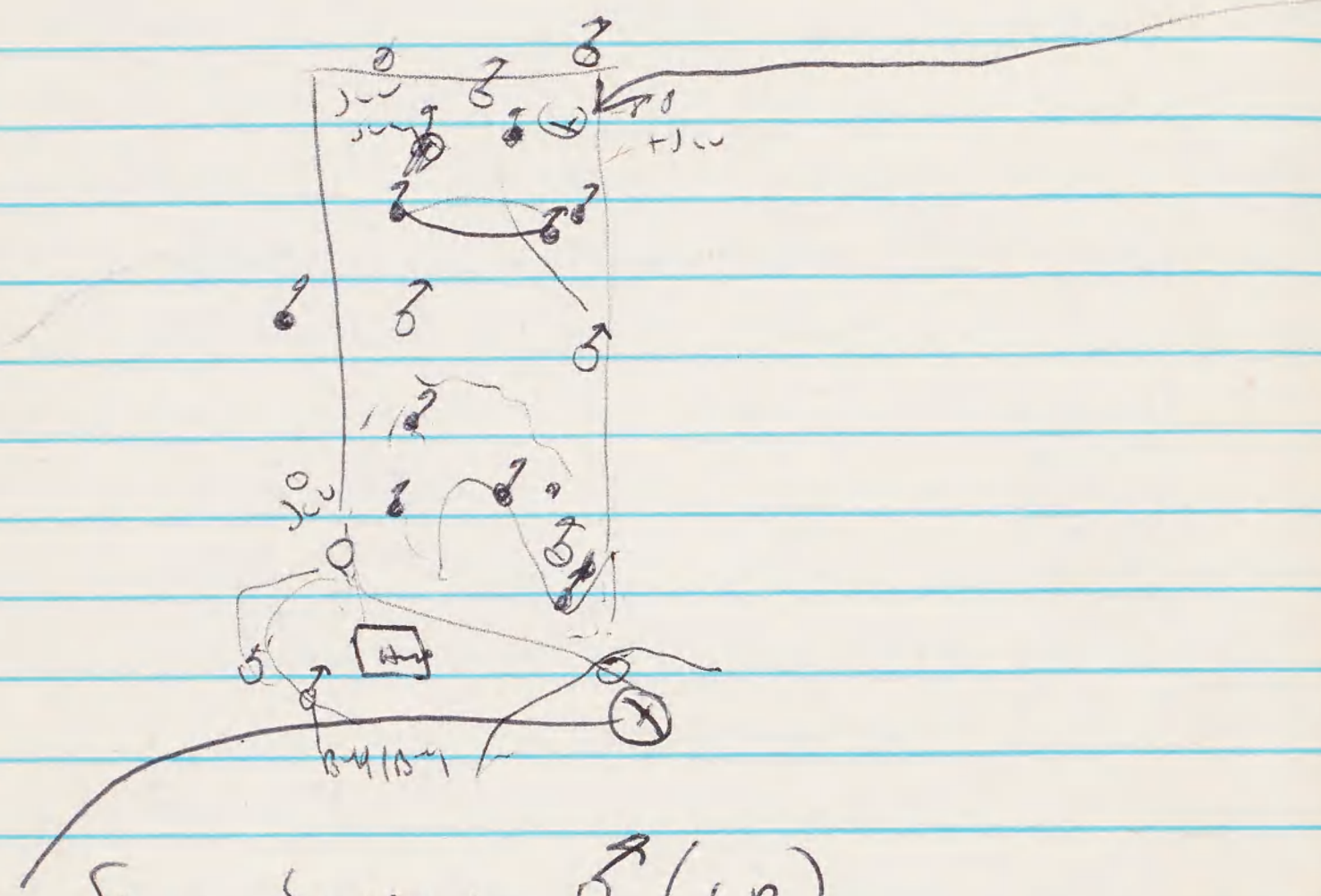
12.8

15.0

14.0



20 June - netting field



Song Sparrow ♂ (cp)

66 371

♀/16

20mm wing

Least Song Pk. Pk.

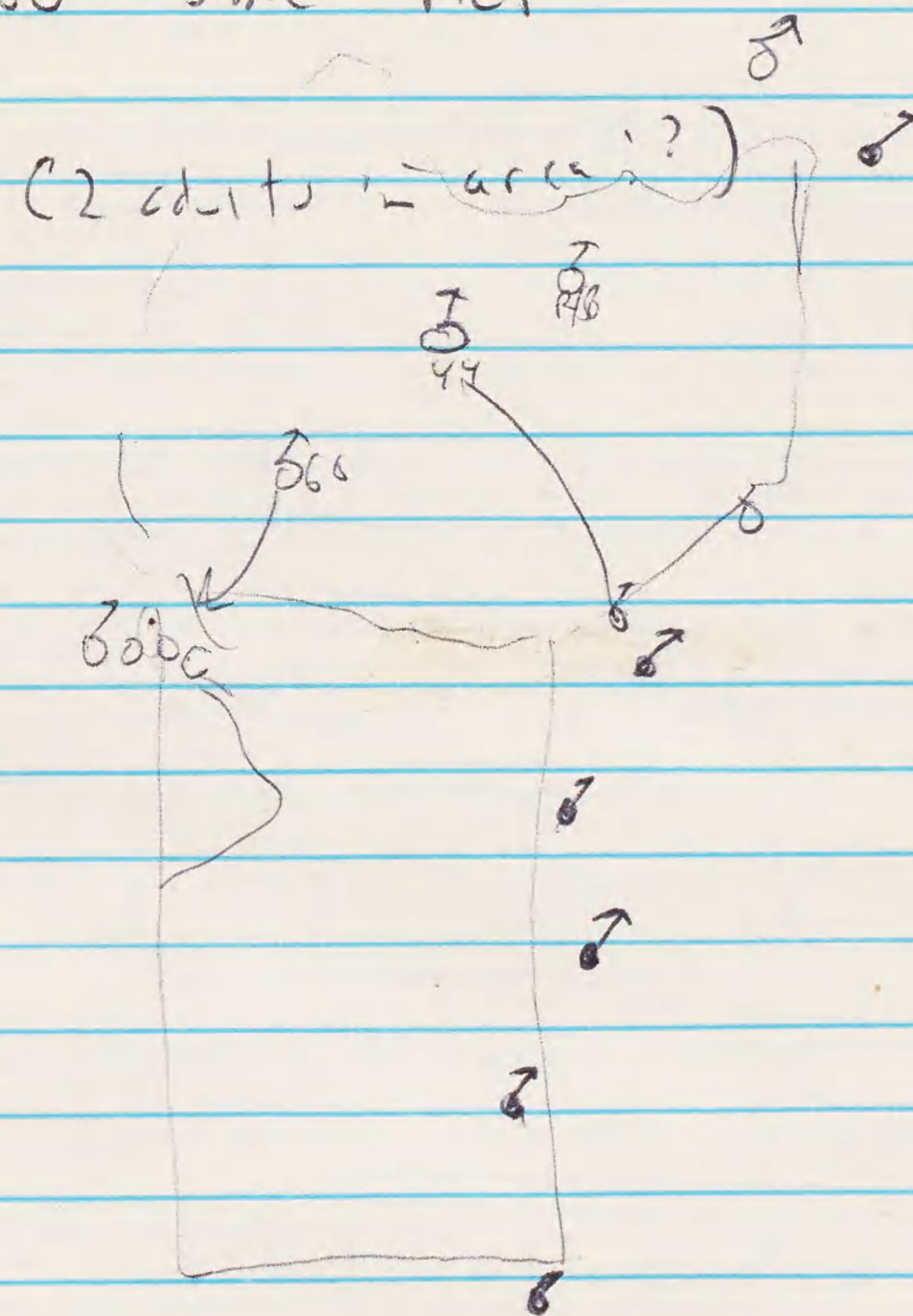
Swamp

Bl/4 Bl/4 RshL  
64mm wing

Song ♀ 6/0 6r/3 94

64mm wing

Song Ju - same net



6/1/2



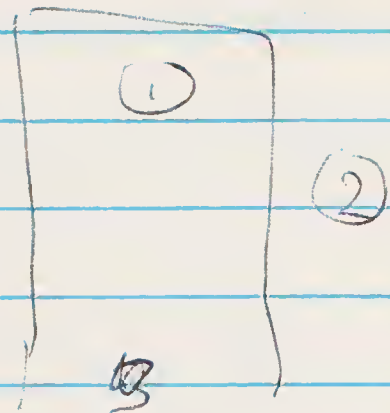
Both went dead

Soil temp

Sunny = 70°

1300 June 20

Field 2



D

W

17.7

15.0

17.3

15.0

16.7

15.7

16.0

15.6

16.7

14.5

16.5

14.3

D

16.5

14.5

15.7

15.4

15.2

16.0

16.0

15.7

16.0

17.3

15.7



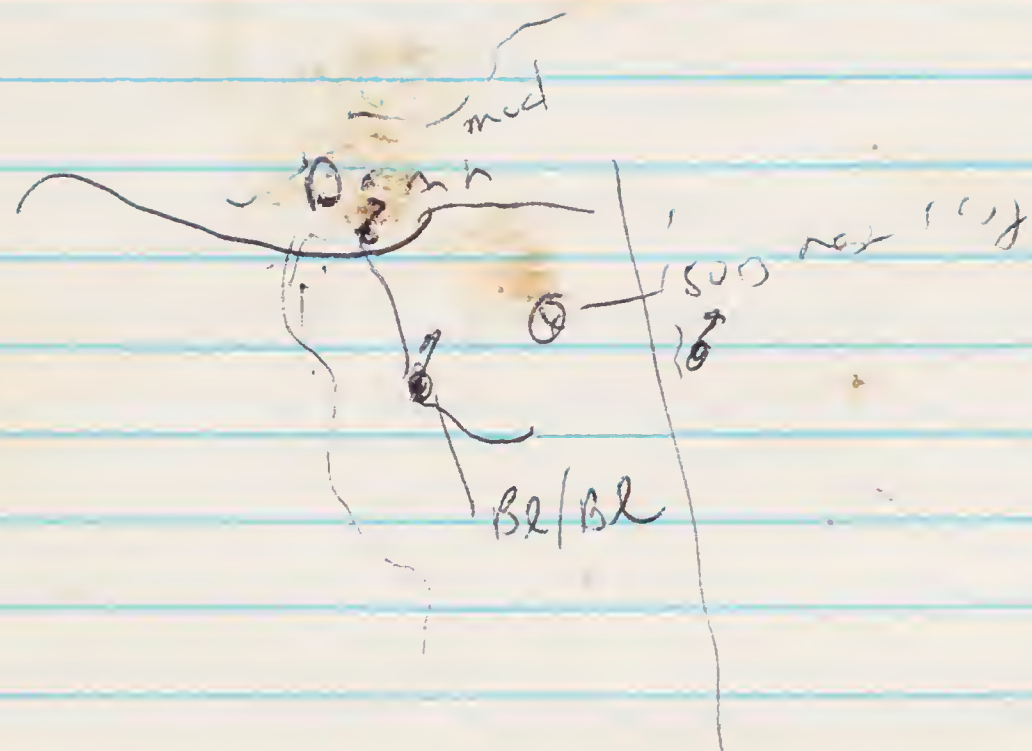
Brown Don

D	W
18.6	16.0
18.5	16.1
19.5	15.6
17.6	16.2
<del>18.0</del> 17.8	16.2
16.6	16.2

for road at

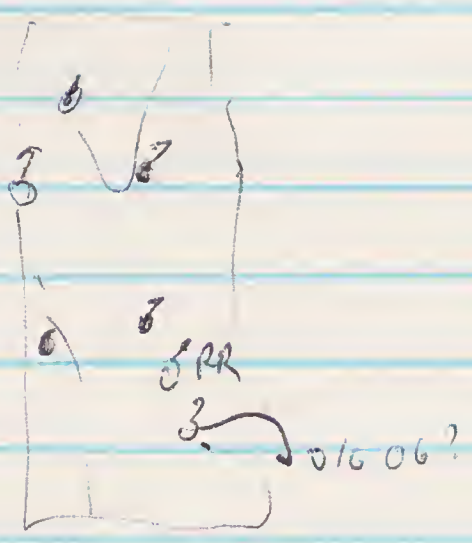
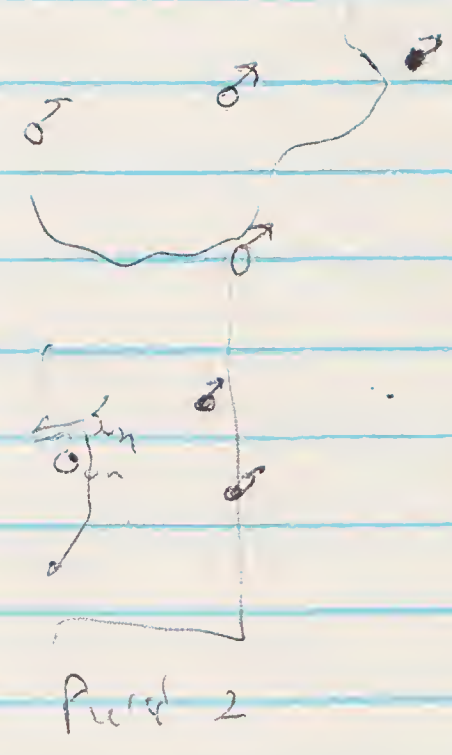
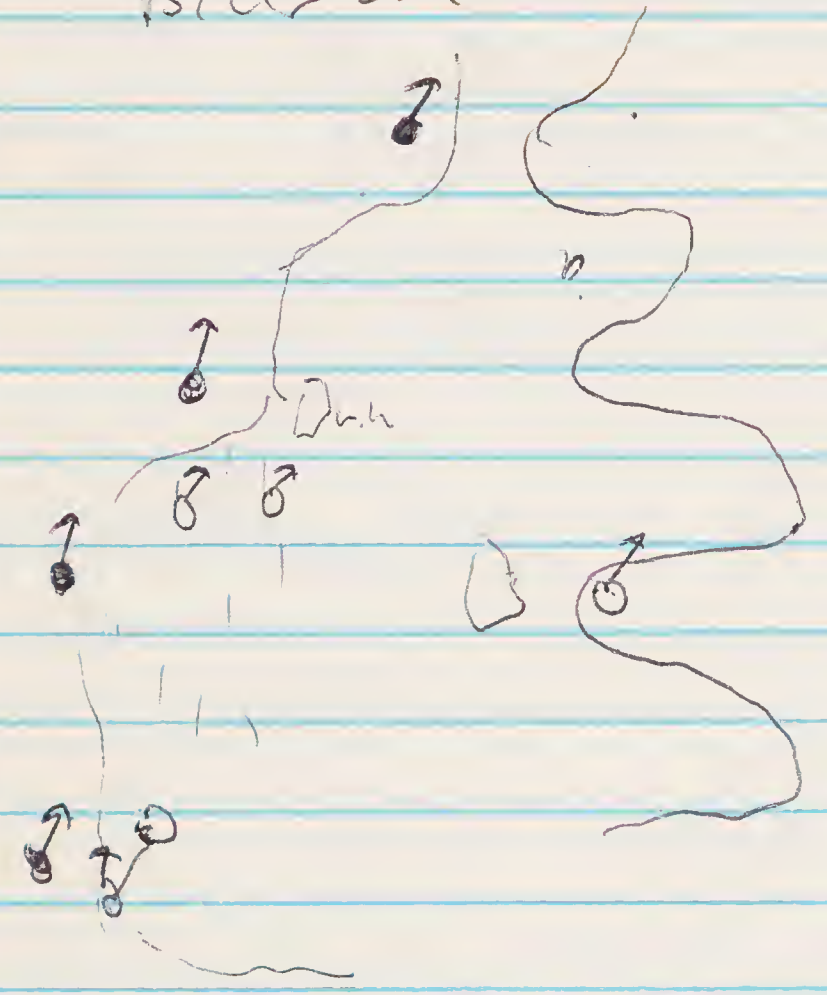
Brown Don

18.4	W
19	14.3
18	14.8
16.3	15.4
15.6	14.0
16.7	13.7
	14.4



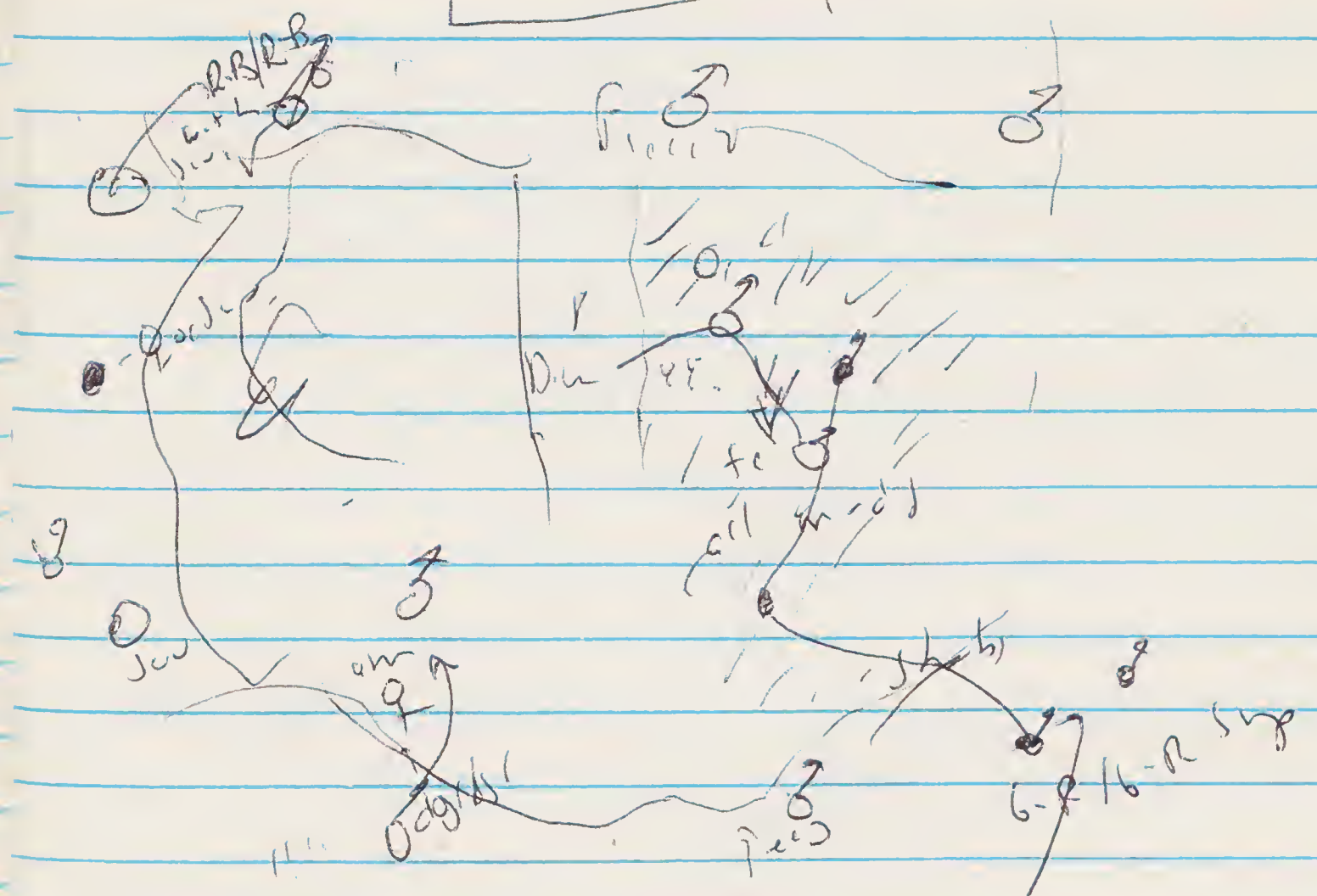
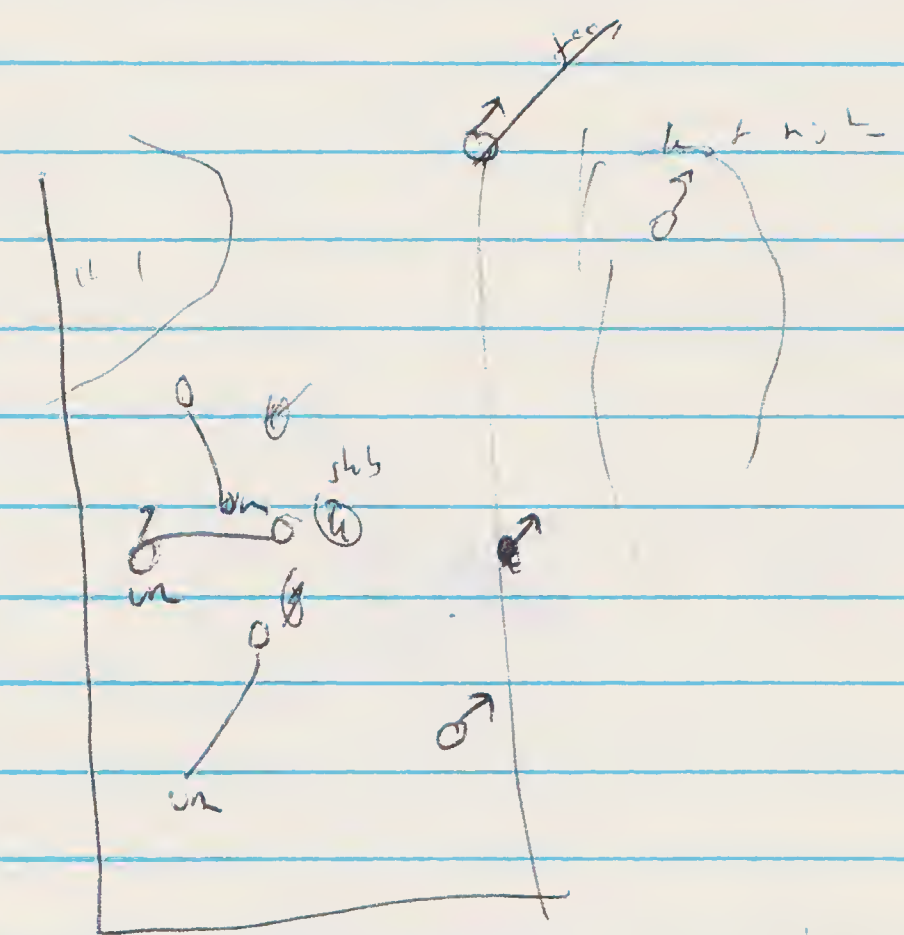


Blue Lake



21 June 8-11? Sunny 70°

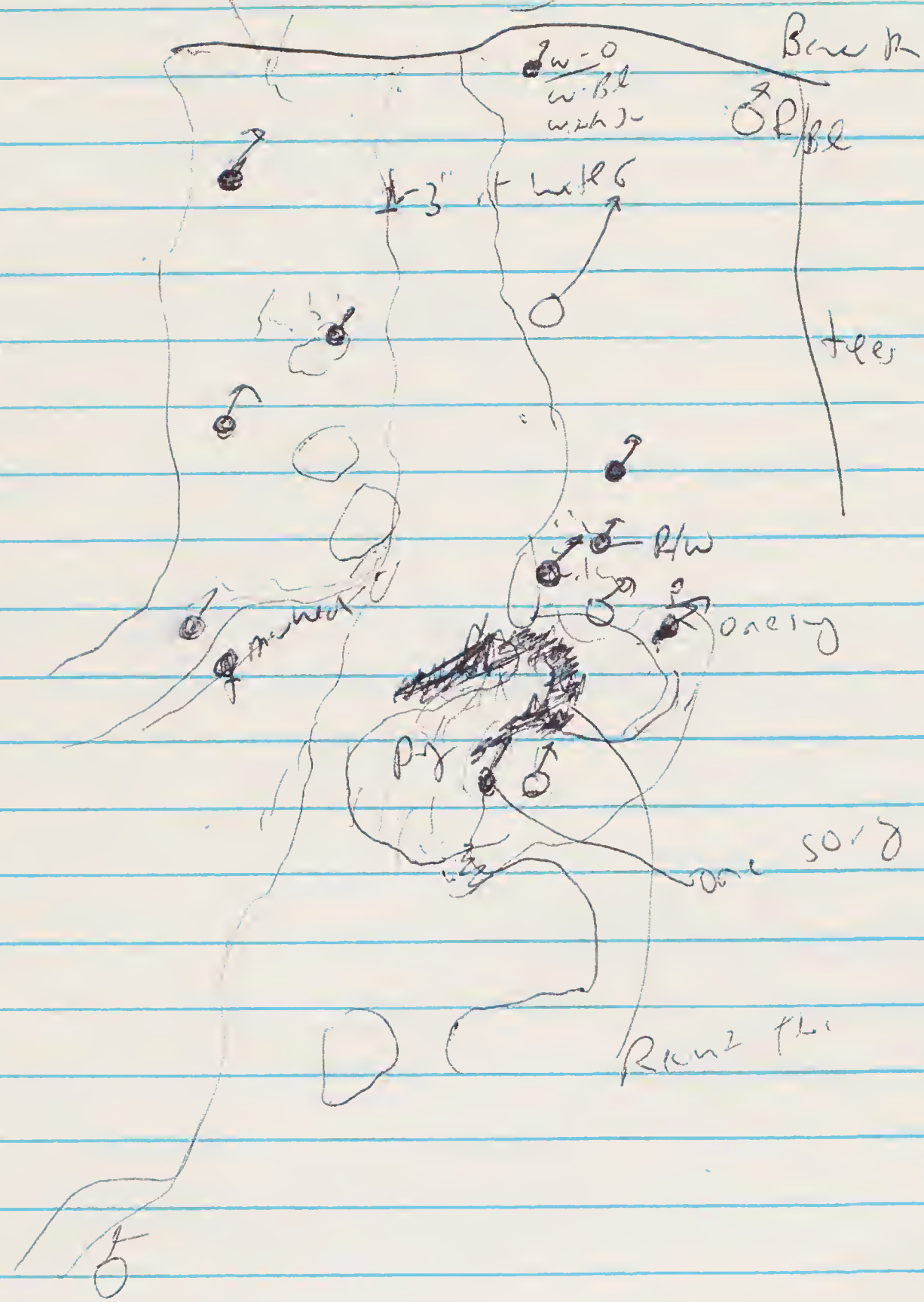
Py House (corner rd) PL-1 PL-4 (high broad) -



I saw garfish sup has been  
origin from this area

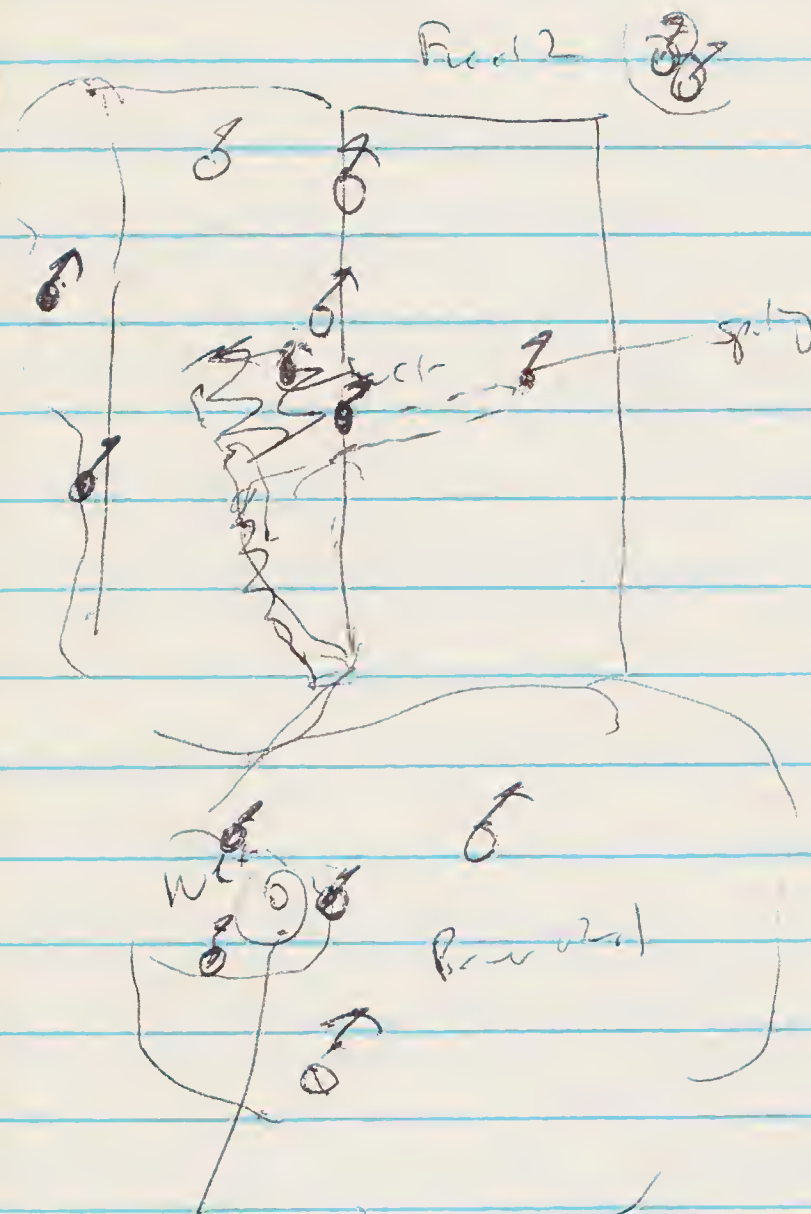


Aug



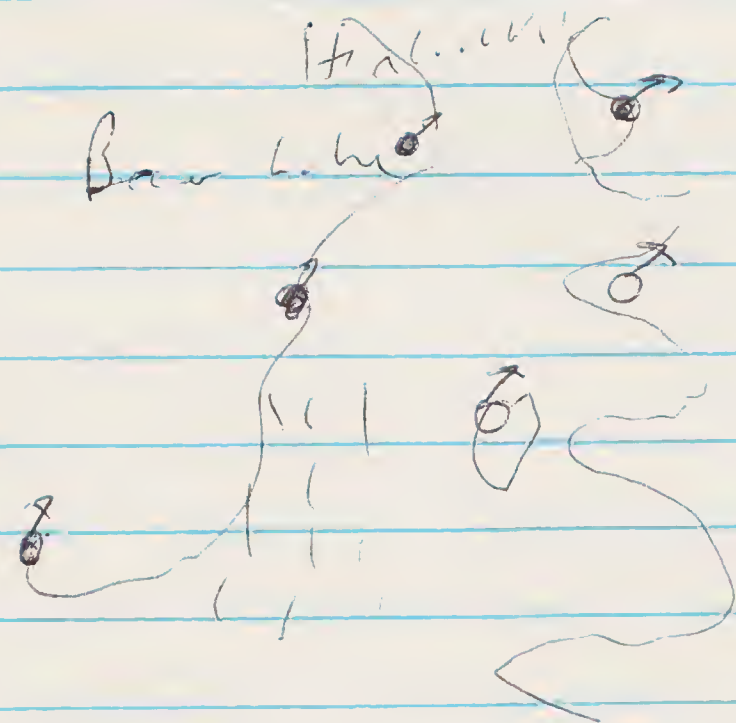
flour (11)  
dry  
unusually

July 2



cond. time very  
dry  
part. song  
Sep 2 -

fl. h. ut  
juv. song  
+ 18pm

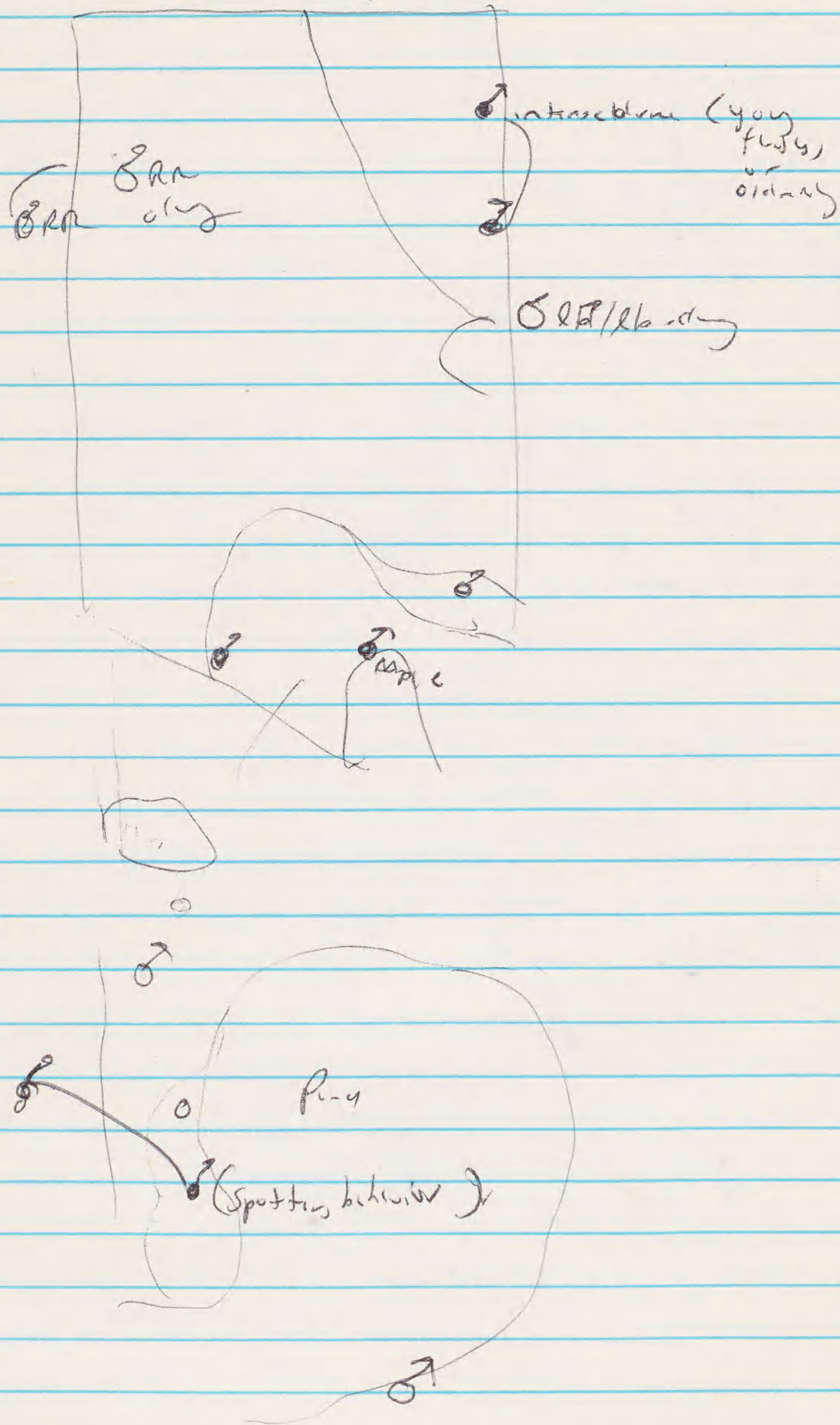




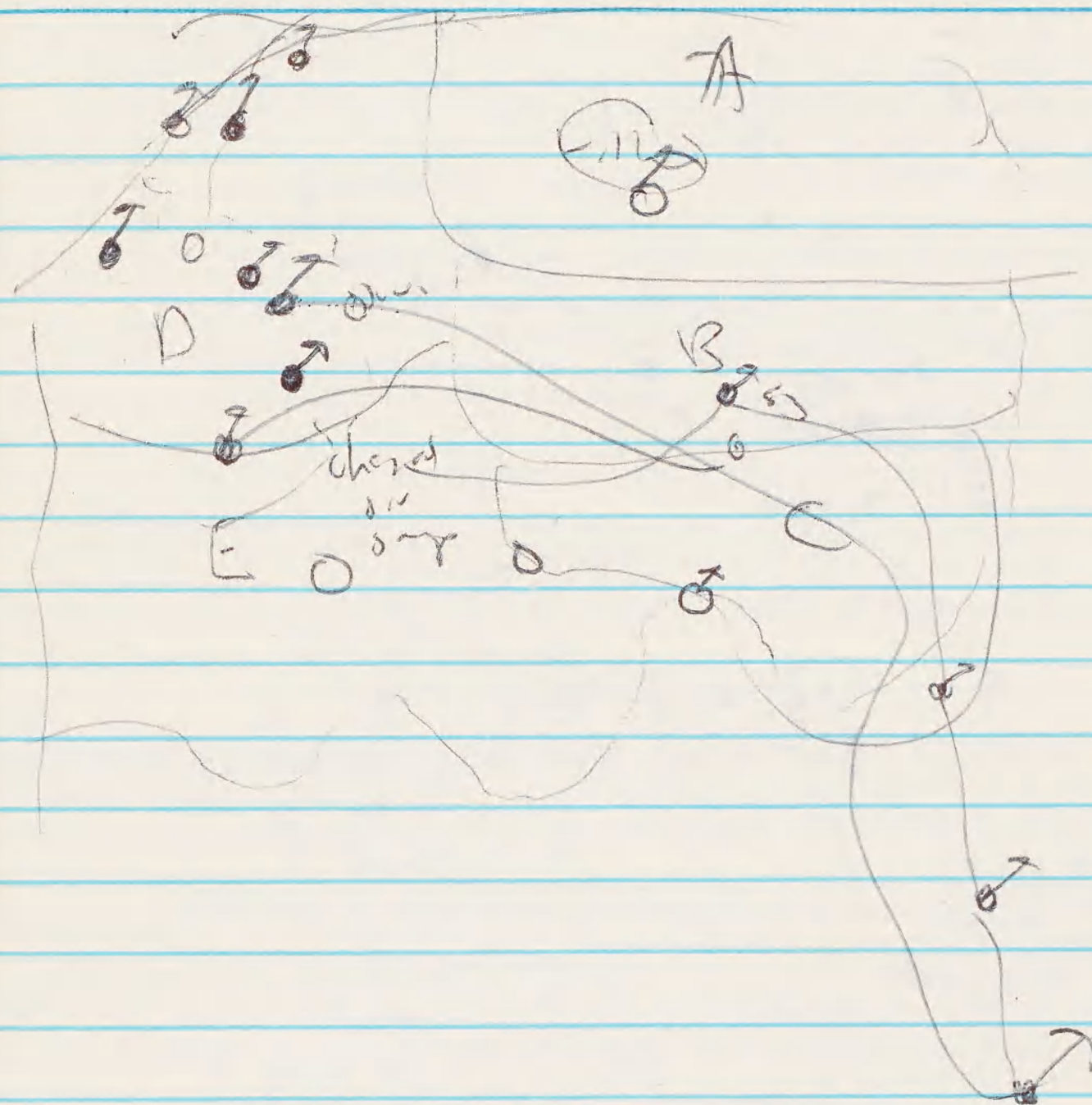
July 8

overcast + mod temp

Field 1



Sampling of old Brown

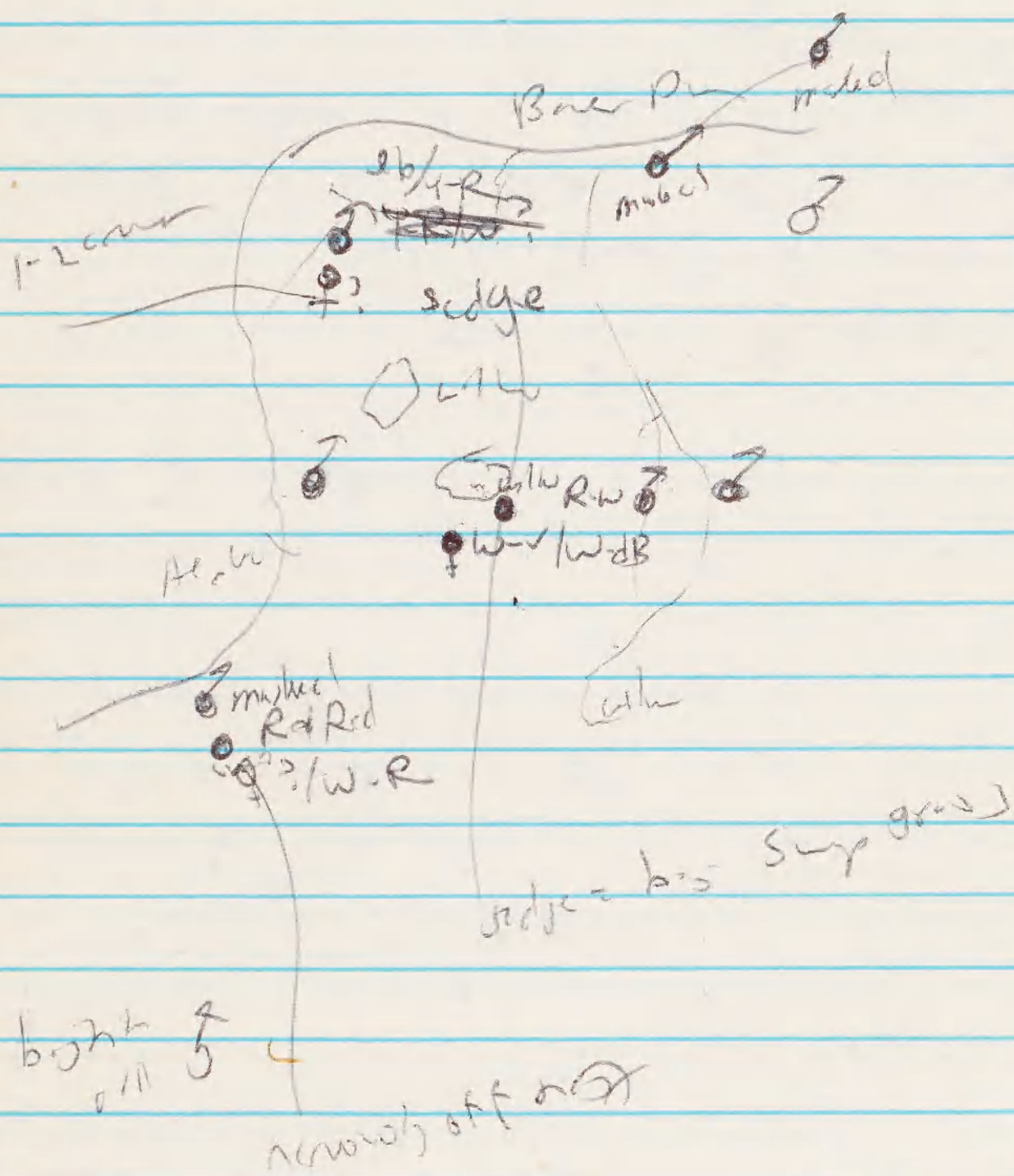




7/8 500-  
pm

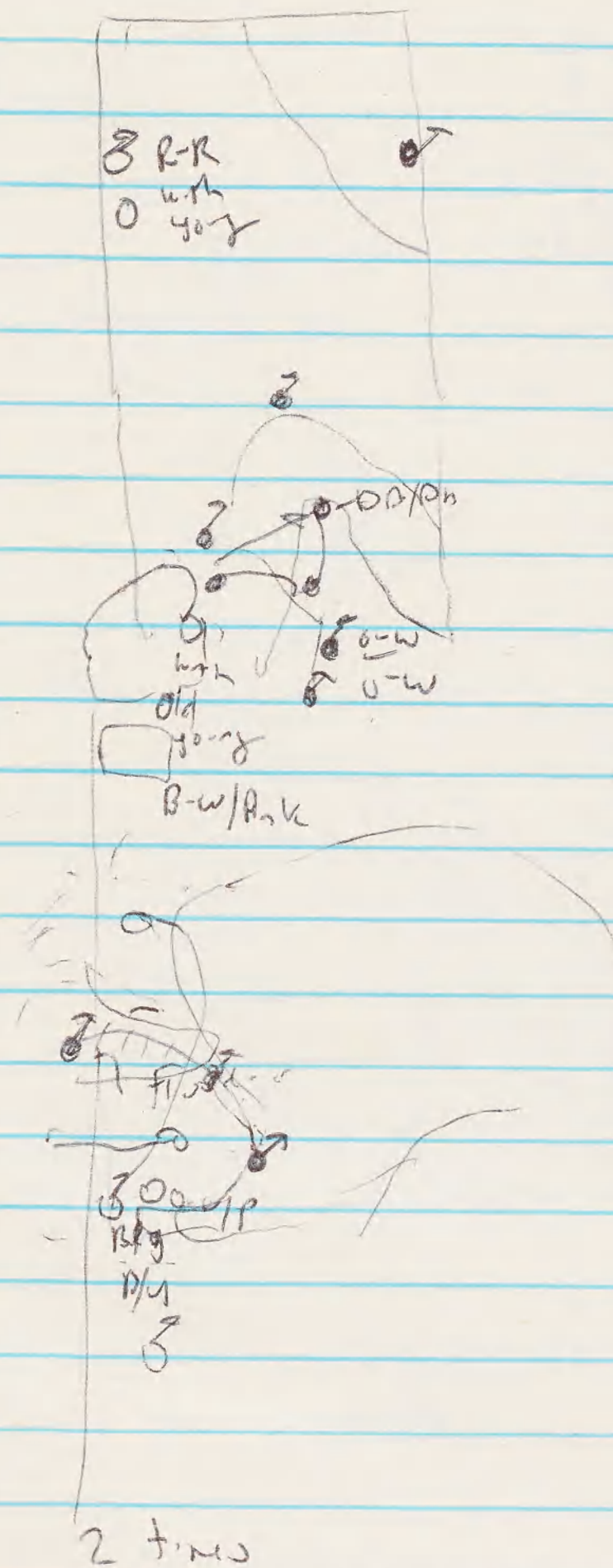
(rained in afternoon)

1-5/1-5 in old Bur Port



7/9 0600-  
1130-

rained off + in  
all morning

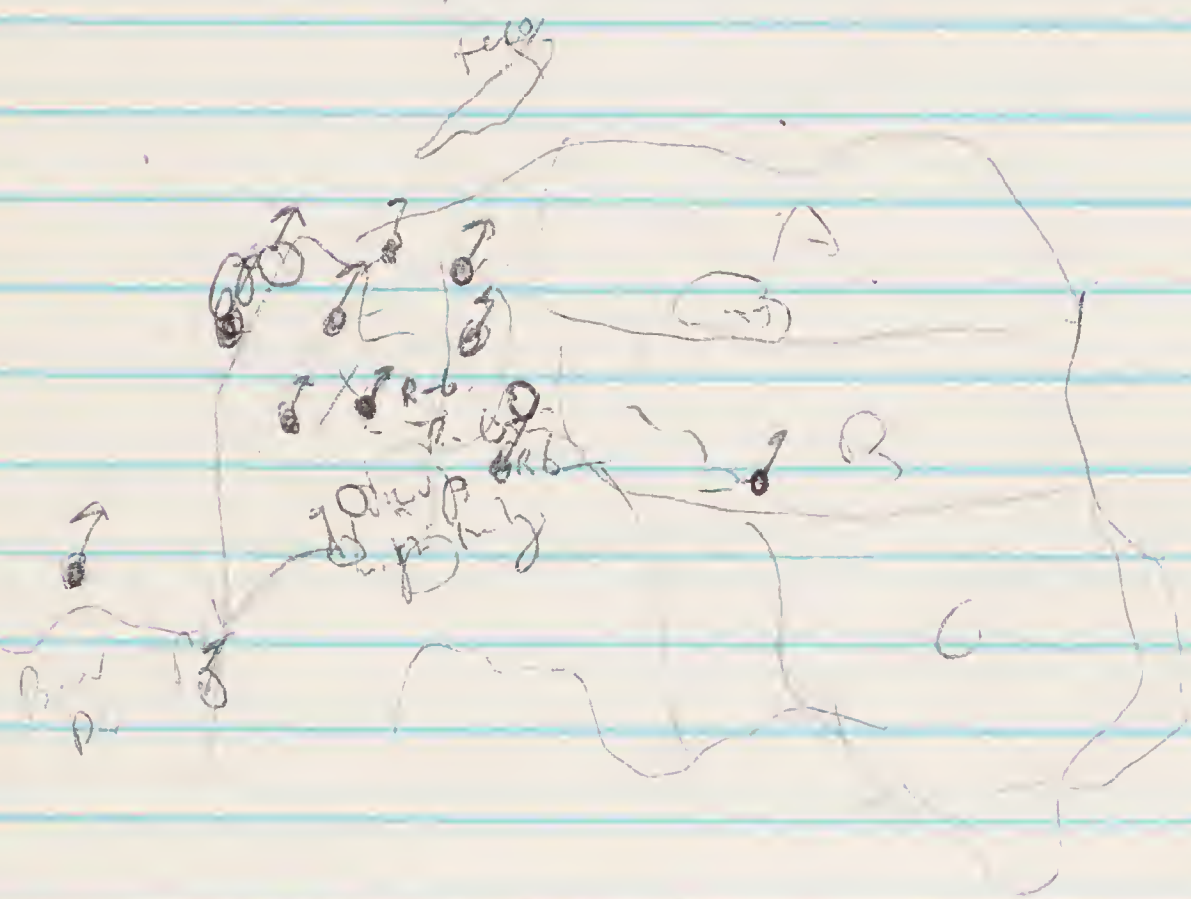




1864

Clayton

h. c. c. 27



Zulea

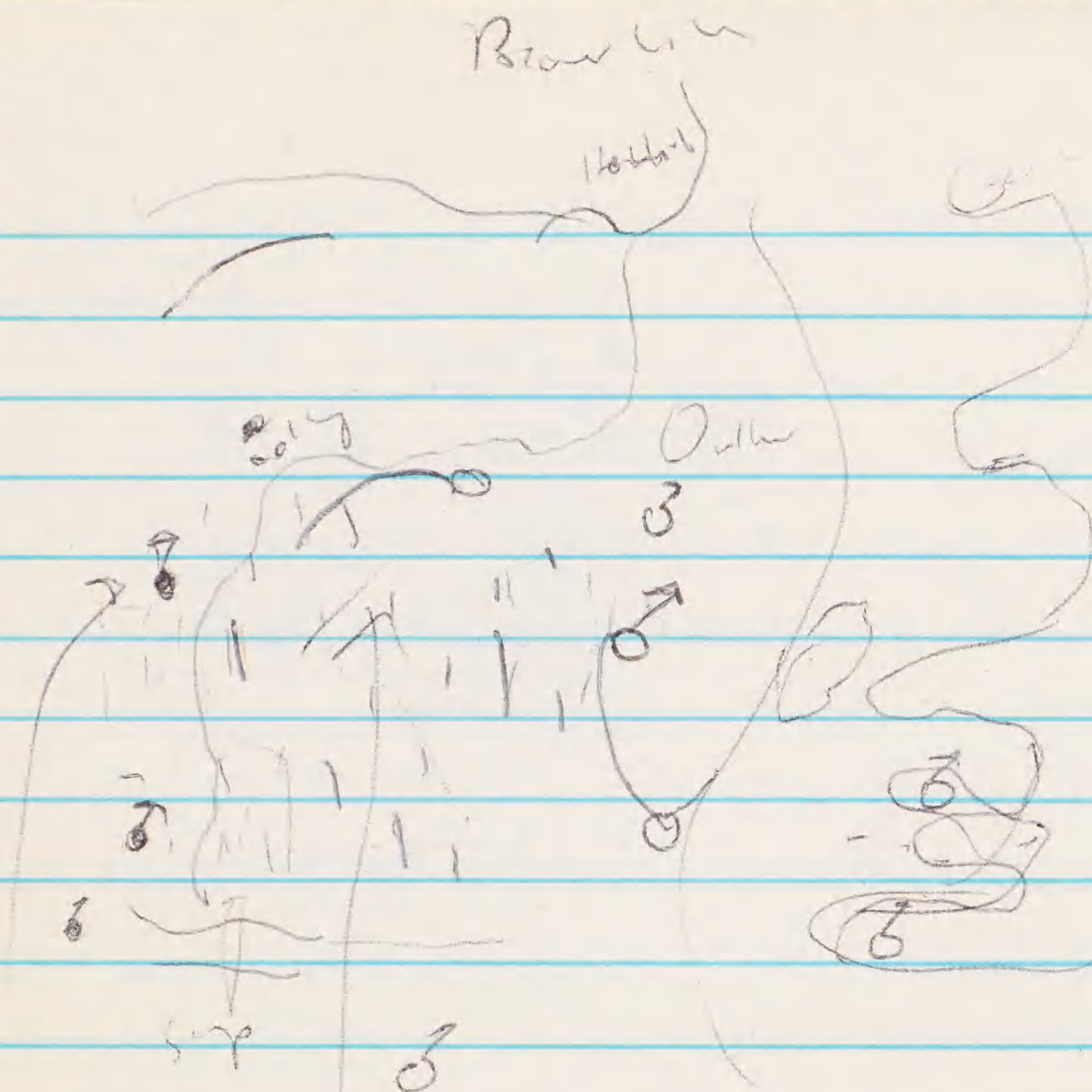
Om

General impressions: Things have dried  
out considerably even though it  
rained all night last night.  
only the very center of old Bear River  
is at all wet & I have no water.  
This is the core of the riparian  
~~habitat~~ & I see no  
evidence of it - Song sparrow  
yours are all over the territory.

Shrimp near Vito's house is spotty  
to yellow - but the row I  
has down a core that when  
last year is flooded the bird  
returns to normal looking for  
most of the time.

The only bad thing about once in 2 days





no song

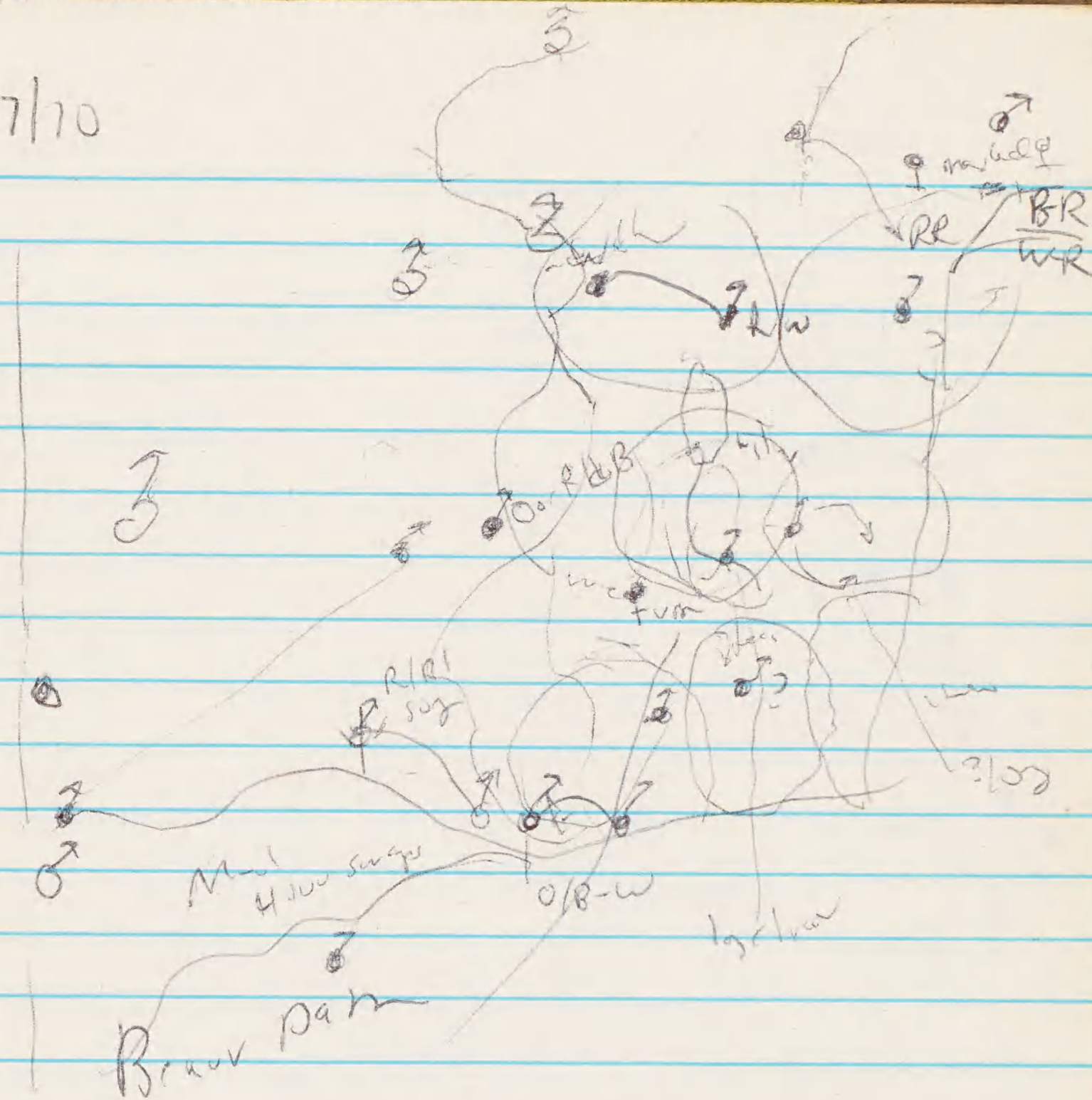
7/9 in cage very quiet

partly for Sup  
Spirrows!

This area is partly  
with for

many  
but Sup are not  
very flushed  
much

7/10



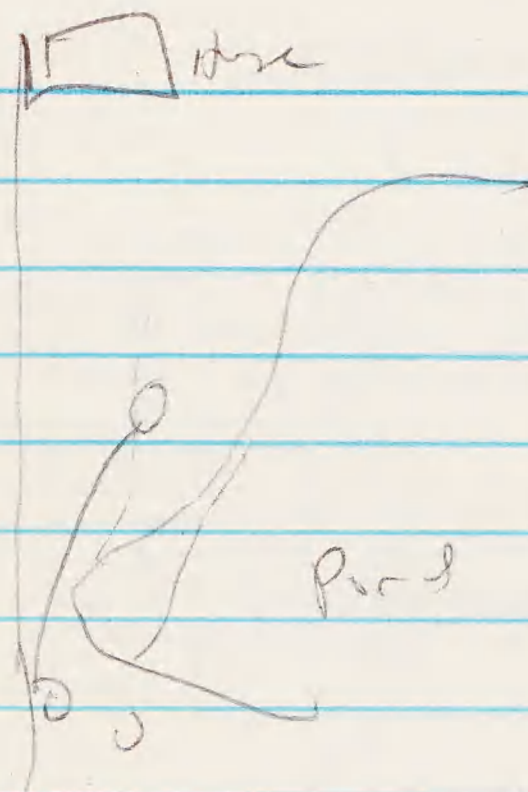
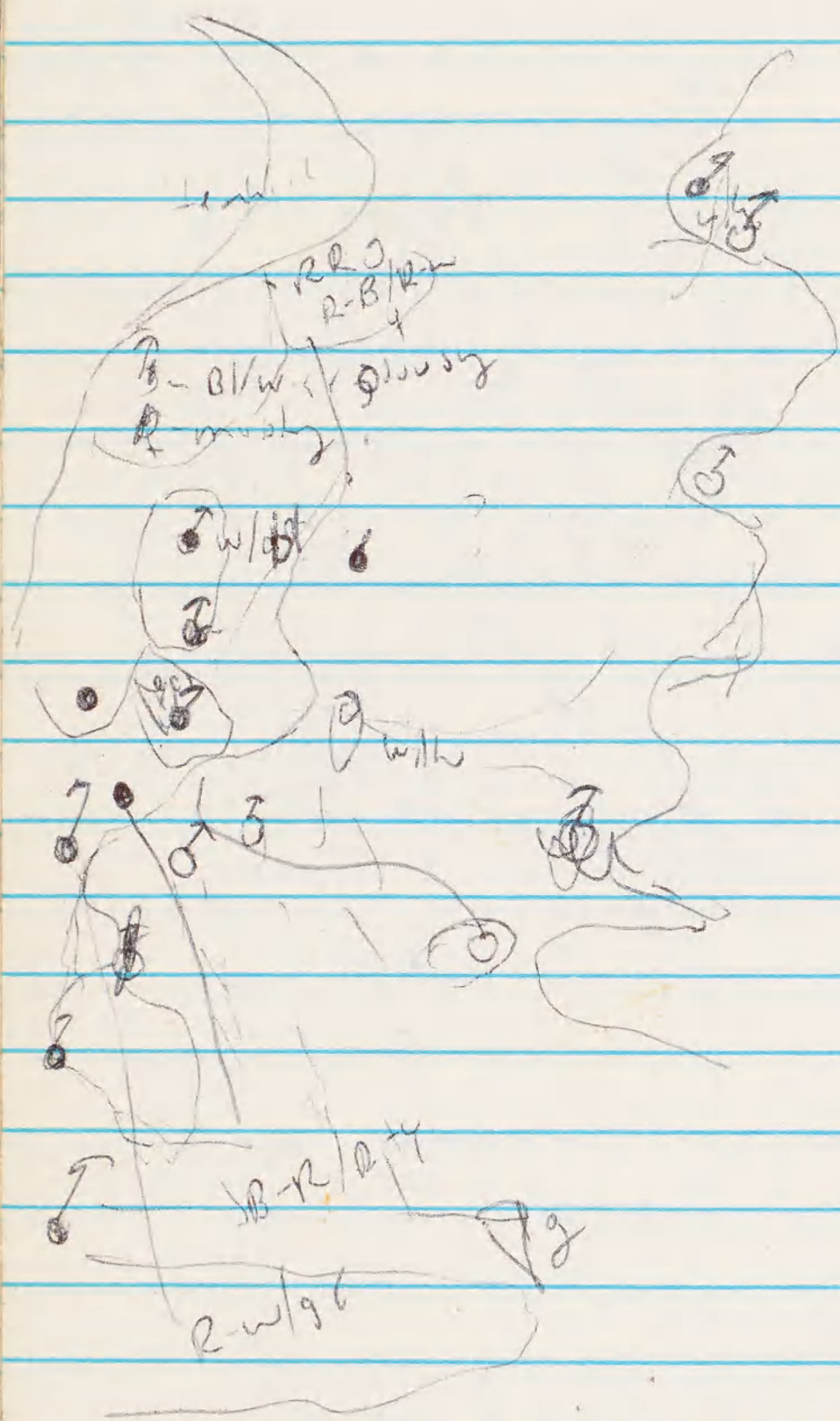
1000  
P/R  
W/R

8.000

At least 8 hundred ♂ in Brown  
area



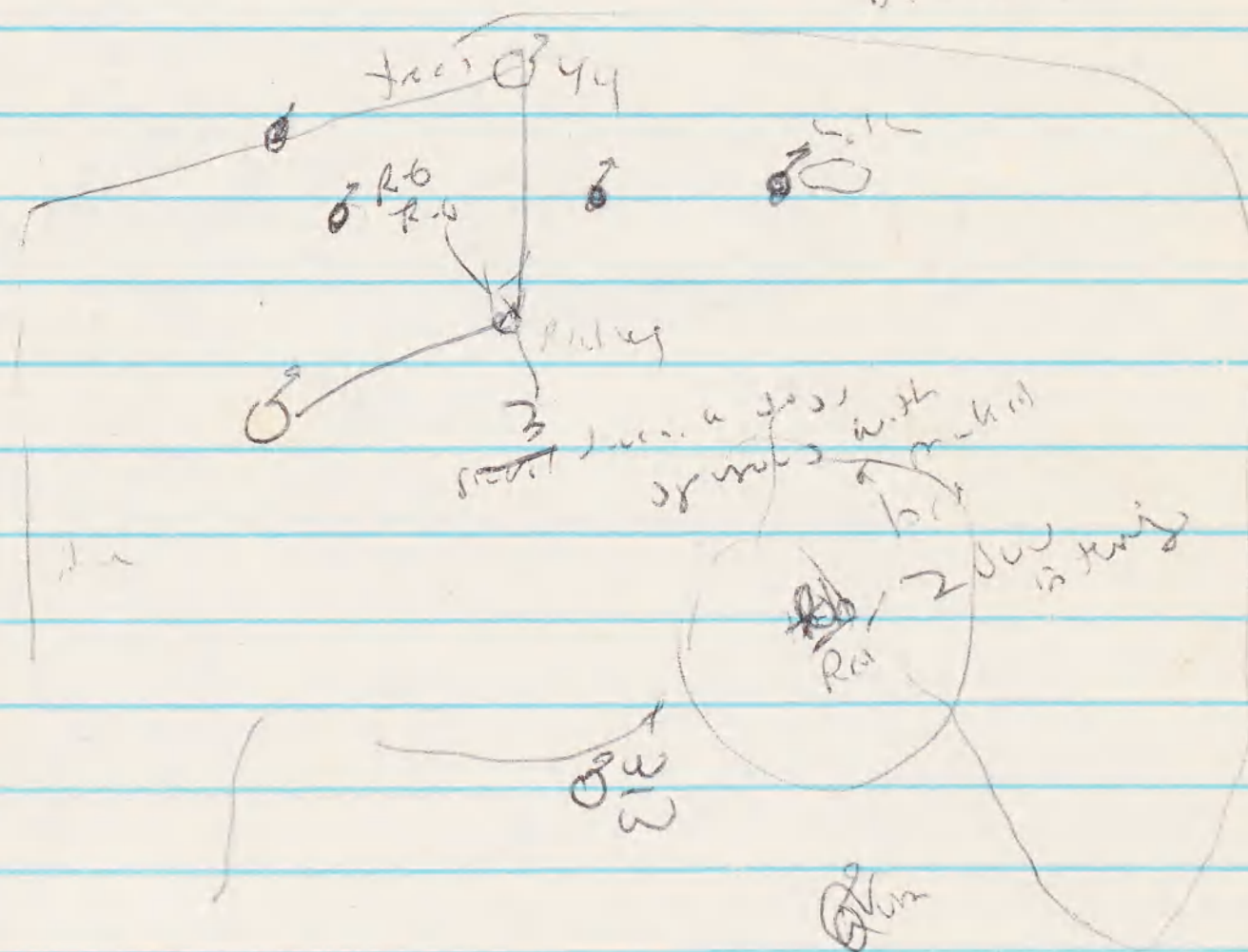
Baker Lake



$W/dB \rightarrow dB \rightarrow S_2$

7/21 PM

dry  
brown part





7/18 am 12:00 noon 12:00 noon 12:00 noon  
pm 12:00 noon 12:00 noon 12:00 noon

Swaps in heap mode

of 6-10 weeks

Bill  
Gibb

Flooded (non-saturated)

Р.К. Со

69 um

3000 for John  
 + 5000 for Susan  
 with 54  
 by 02.11.11  
 before or  
 adult +  
 with 5

25

Field - 1966

3

11/11/11

feeding

Birds from 2.0-10.00

near nest

7/13

115

chased 50m

o/w/Pink with nest r 3

nest

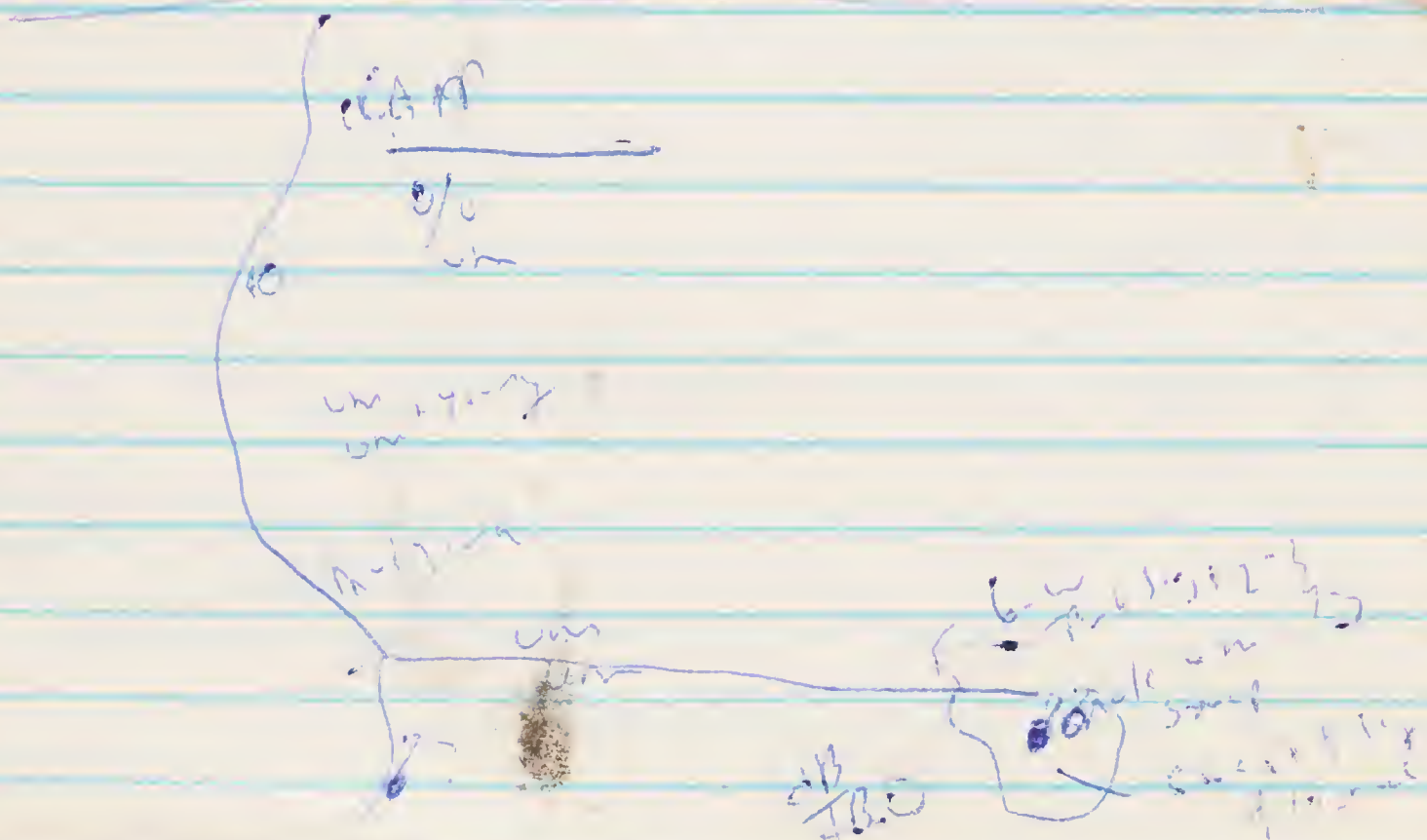
from 30  
6-6

f. f. only in NW  
 Bear  
 broad Road  
 (one f. Bear  
 with hole)  
 O +  
 can 1  
 Bear - 1/2 - 2

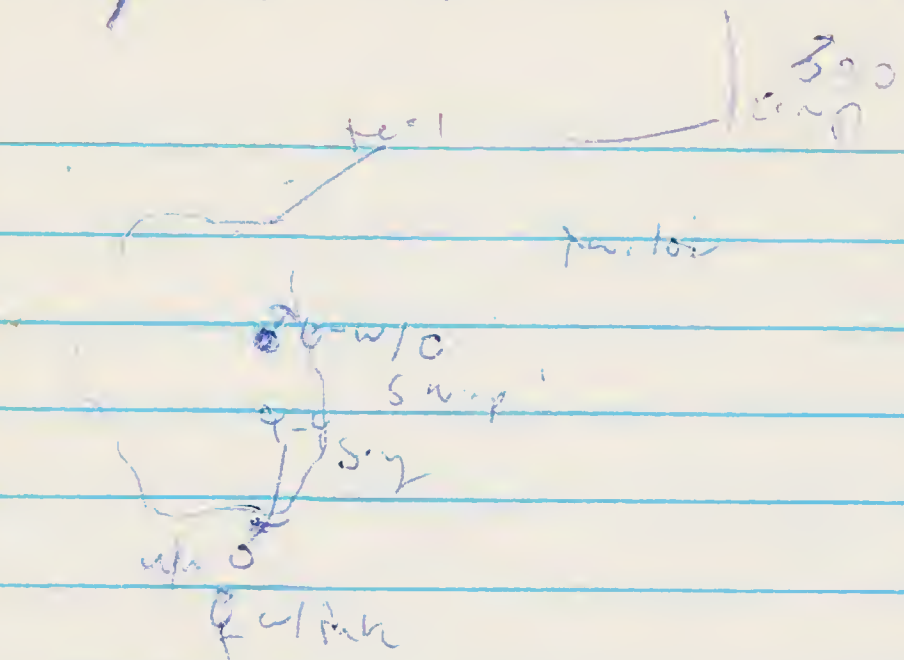


Brewer continued. Sent. 4

0.4	FR	0.1	5	4
0.4	R	5	4	
0.5	S	5	4	
0.5	SF	1/2	4	
0.4	FL	5	4	
0.3	C=6	5	4	
0.4	C=6	5	4	
0.4	C=6	1.1	4	
0.4	C=6	5	4	
0.4	C=6	M	4	
0.4	C=6	5	4	
0.4	FL=6	5	4	
0.4	FL=6	M	4	
0.4	C	5	4	
0.4	FL=6	M	4	
0.4	FL=6	5	4	
0.4	C=6	5	4	



July 19 - playing clubs, top pin 300-700



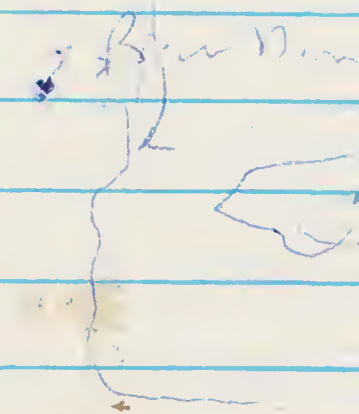
Vote 6-6/0

## Summary

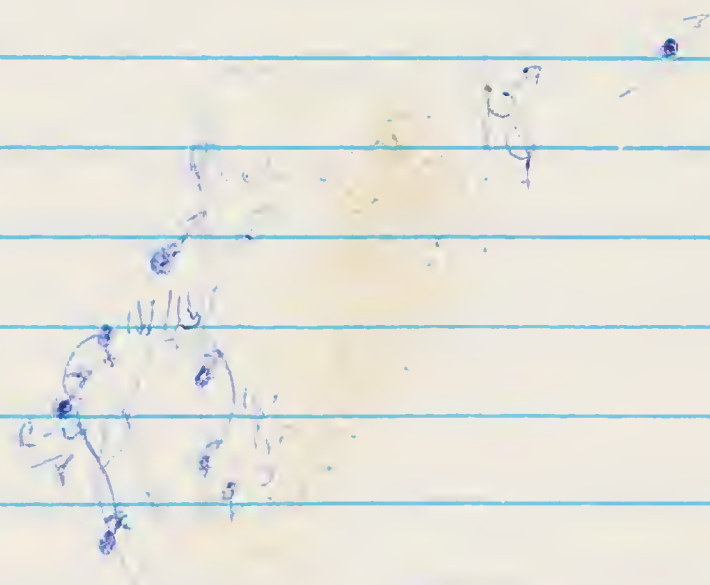
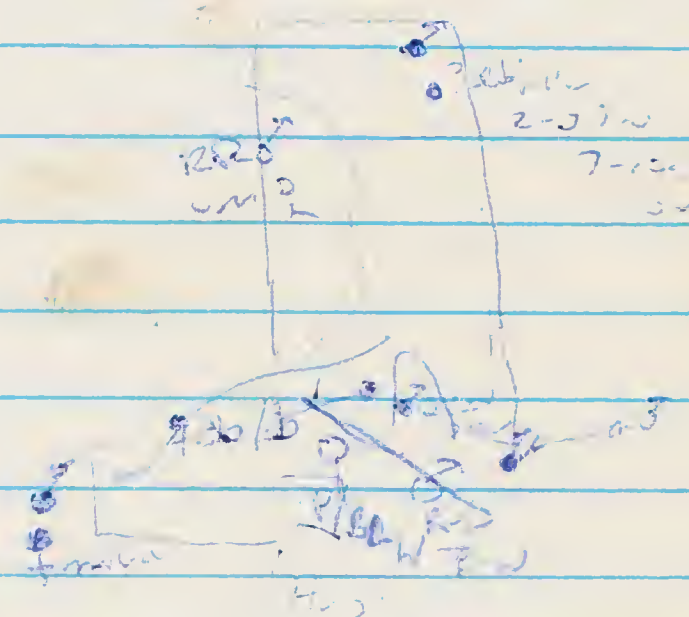
has reduced

R. 6 / R-6

then or her,  
back R. 6/11.

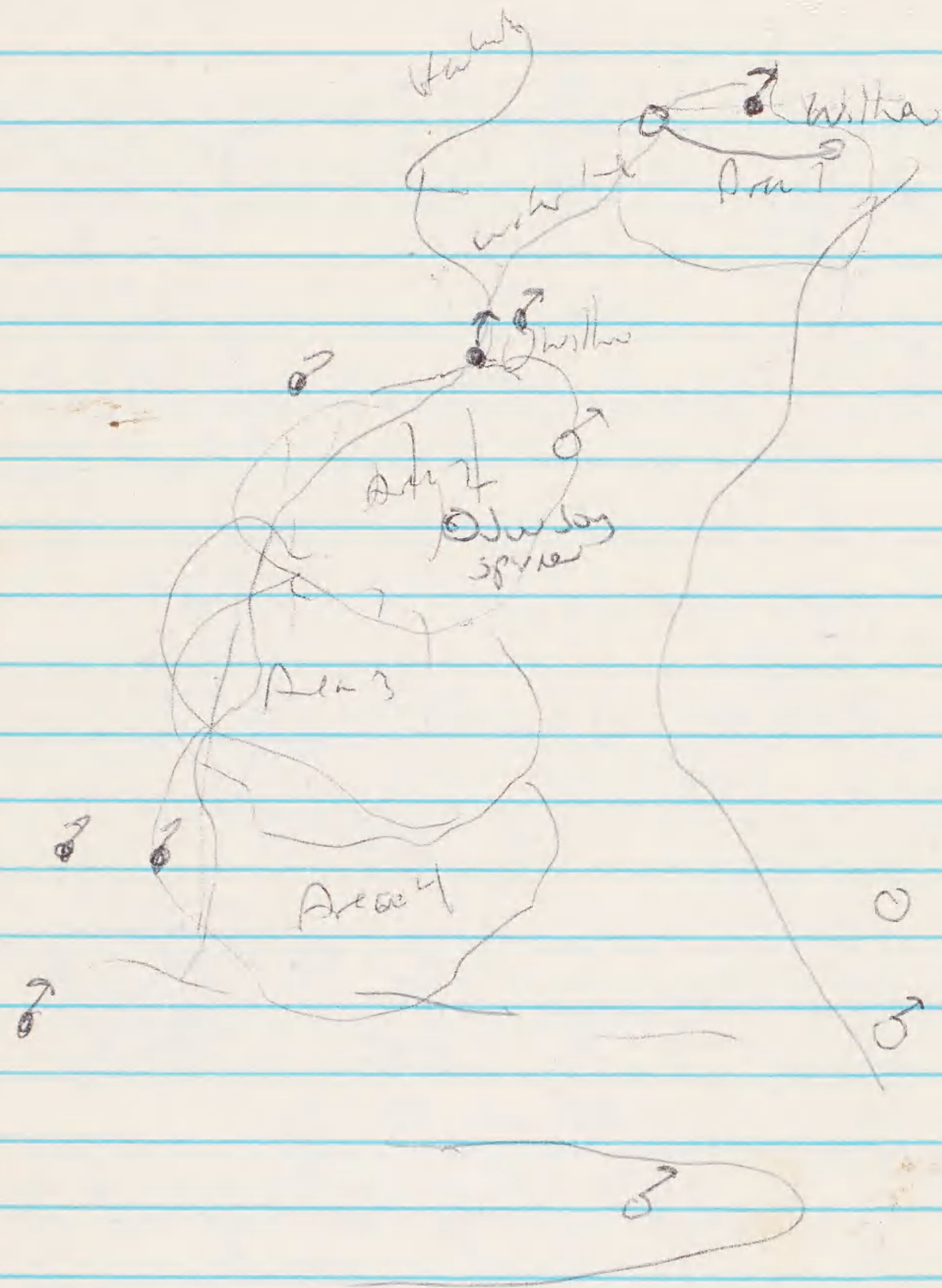


## Fach 1





drawn 7/11



7/11 Beaver lake vegetation survey

1.8	G	BB	1 BB	D	Area 1
0.6	FS		0	P	1
		Dense BB thicket			1
2	FB		0	D	1
0.7	F		0/100	D	1
0.5	FS		0	D	1
0.3	Grass (bass)		0	S	1
0.4	GF		0	M	1
2.0	G		0	P	1
0.8	F		2 BB	P	1
0.6	FS		0/1	D	1
0.3	S BB thicket		2/1	D	1
0.6	SP		0/1	D	1
		BB thicket		P	1
		BB thicket		D	1
0			3/1	D	1
0.8	FB		1/2 BB	D	1
0.4	Grass (bass)		0	D	1
0.4	Grass (bass)		8/0	D	1
0.4	Grass		0	S	1?
0.5	Grass-bass		0	1/2	?
0.5	Grass (bass)		1	M	1
0.3	Grass (bass)		0	M	1
0.5	B-C-F		0/3 BB	D	1
0.6	B-S-F		1/100	D	1
0.4	SB		0/1 BB	D	1
0.5	B		1/2 BB	P	1



0.5	GS	O	D 1
	BB + 2. det		
	"		
1/20	F	2/20	D 1
0.4	GS	1/100	D 1
0.3	FS	1/200	D 1
0.4	S	100	D 1
0.5	S	100	D 1
0.8	S	G	S 1
0.5	SF	100	S 1
0.8	S	0.5	M 1
0.6	FC	O	D 1
0.6	FG	O	D 1
0.4	FG	O	D 1
0.6	S	O	P 1
0.8	S	100	

BB + 2. det

BB + 2. det

0.4	S (6.00)	O	M 2
0.4	F	O	M 2
0.3	S	O	M 2
0.3	S	O	M 2
0.3	S	O	S 2
0.3	S B.1	O	S 2
0.3	C	O	S 2
0.4	F	O	M 2
0.3	S	O	M 2

0.3	S	O	M 2
0.2	S	O	M 2
0.6	F	O	M 2
0.4	G	O	M 2
0.7	FG	O	D 2
0.4	FC	O	D 2
0.3	F key	200	D 2
0.3	FC	O	D 2
0.3	C	O	M 2
0.0	F	O	P 2
0.5	G-S	O	M 2
0.6	F	O	S



Vegetation along old river

1m.  
2m

Plot close to

1 Unknown

0.2

1	0.5	Brass (phlo.)	1 Unknown	D	Sup 2
2	0.3	Cissampelos	0.1 Pgs	D	7
3	0.6	Sedge	2/2 Pgs	D	2
4	0.3	grass	1 Pgs	D	2
5	0	0	0	D	2
6	0.3	G/S	1/2 Pgs	D	2
7	0.2	Carex	2/3 Pgs	D	2
8	0.3	Carex (plant)	1 Pgs	D	2
9	0.1	Carex	0	P	2
10	0	0	0	P	2
11	0	0	0/ing	P	2
12	0.3	Carex/brass	0	D	2
13	1.2	R	0	D	2
14	0.3	Carex/brass	1/2 Pgs	D	2
15	0.3	Carex/brass	0.8	D	2
16	0.2	Grass	Viburnum	D	0
17	0	0	0/ing	D	2
18	0.2	Bib	0	D	2
19	0.4	Carex	0	D	2
20	1.3	brass	Willow	M	2
21	0.2	Carex/brass	Willow	M	2
22	0.4	Grass	Grass	D	2
23	0.2	Carex/brass	0	D	2
24	0.3	Phlox	2 Pgs	D	2
25	0.3	Grass	3 Pgs	D	2
26	0.3	Carex	1 Pgs	D	2

27	FS	Staph	1 Pgs	D	2
28	FS	Gar	3 Pgs	D	2
29	0.6	RB	0	D	2
30	0	0	0	D	2
31	1.2	R	Willow tree	D	A
32	0	0	0	D	A
33	0.2	SB	0	D	A
34	0	0	0/ing	D	A
35	1.2	RB	0/2 Pgs	D	A
36	0.2	GF	1/3 Pgs	D	A
37	0.5	Gar	2 Pgs	D	A
38	0.5	fg	1/2 Pgs	D	A
39	0	0	0	D	A
40	0.2	Large	0/ing	D	A
41	0	0	0	D	A
42	0.2	Carex	2 Pgs	D	A
43	1.2	Grass	0/ing	D	A
44	1.2	Phlox	1/3 Pgs	D	A
45	0.4	Carex	1 Pgs	D	A
46	0	0	0	D	A
47	0.2	Subs	0	D	A
48	0.2	Subs	1	D	A



42	0.1	Gray	D O D
48	0.3	Gray/green	D O B
49	0.3	Gray F	b 1/2
50	0.7	Fluff	O 1/2 B
51	0.1	Curly	⊙ 0/1/2 B
52	0.3	grass	P 1/2 B
53	0.4	Gray	P 0/1/2 B
54		Plum	
55	0.1	grass	D 1/2 B
56	0.2	Fluff	1/2 B
57			
58	0.2	Gray/green	1/2 B D B
59	0.5	F/gray	O O B
60	0.2	F/gray	0/1/2 B D B
61	0.5	Gray	1/2 B D B
62	0.2	Fluff	O D B
63	0.3	F-Gray	1/2 B D B
64	0.2	Gray	0/1/2 B D B
65	0.5	Gray	O P B
66	O	O	1/2 B D B
67	0.3	Gray-F	O D B
68	0.2	Fluff	1/2 B D B
69	0.2	6 (pwr)	0/1/2 B D B
70	0.2	F/b	0/1/2 B D B
71	0.5	Fluff	1/2 B D B
72			

Run	0.8	F plant	2/3 B D B
	0.2	pl. L	1/2 B D B
	0.2	Fluff	1/2 B D B
	0.6		
	O	O	2/3 B D B
	0.2	F	P B
	0.2	Fluff	O D B
	0.2	Fluff	1/3 B D B
Run	0.2	Fluff	2/3 B D C
	0.2	F	O D C
	0.2	Fluff	O D C
	0.2	F	1/2 B D C
	0.5	Fluff	1/2 B D
	O	O	1/2 B D C
Run	0.8	plant	⊙ D C
	0.2	Grass/plant	2/3 B D C
	0.2	Grass F	1/2 B D C
	0.3	Grass F	O D C
	0.5	GF	O D C
Run	1.2	Grass	O D C
	O	O	O D C
	0.2	Grass	0/2 P C
	0.3	Grass	0.4 P C
	0.6	Fluff	1/2 B C
	0.9	O	0/2 D C
	0.8	G(Pl.)	O D



Row

GO/2	Plant	O	P	C
0.5	G-Pl	1 Py	D	C
0.1	F (B.L.)	0	D	C
0	0	0	D	C
0	0	0	D	C
0.2	0	0	D	C
0.2	G	1 Py	D	C
0	0	0	D	C
0.3	Sidge	1 Py	D	C
0	0	0	D	C
0.3	G	0	D	C
0.1	F6 (puk)	0	D	C
0.1	G	0	D	C
0.3	G	0	D	C
0.4	G	0	D	C
0.8	G	0	D	C
0.3	G	0	D	C
0.2	P1/gr	0	D	C
0.0	0	0	D	C
0	0	0	D	C
0	G/L	0	D	C
0.4	0	0	D	C
0.3	G	0	D	C
0.0	P	0	D	C
0	0	0	D	C
0.4	S/b	0	D	C

Row 1

O.1	Grass	O	D	C
0	0	0	D	C
0	0	0	D	C
0	0	0	D	C
0.2	0	0	D	C
0	0	0	D	C
0.2	Sidge	0	D	C
0.3	Sidge	0	D	C
0	0	0	D	C
0.2	S	0	D	C
0	0	0	D	C
0.3	S	0	D	C
0	0	0	D	C
0.3	F	0	D	C
0.2	S	0	D	C
0.2	SF	0	D	C
0.3	Sidge	0	D	C
0.2	Sidge	0	D	C
0.3	F	0	D	C
0.2	S/F	0	D	C
0	S	0	D	C
0.2	S	0	D	C
0	0	0	D	C
0	0	0	D	C



88

0

0

100 100<sup>red</sup> 100 100

0.01

F

2 Puck 100

0.5

Pl

100 100 100

0.3

>

100 100 100

0.3

6

0/200 100

Row

0.2

>

0 0 100

0.3

S 6 F

0 0 100

0.3

S 6 F

0 0 100

0.3

S 6 F

0 0 100

0.2

S 6 F

0 0 100

0

0

0 0 100

0.3

S 6 F

0 0 100

0

0

0 0 100

0

0

0 0 100

0

0

0 0 100

0.4

0

0 0 100

0

0

0 0 100

0.6

R

0 0 100

0.8

R

0 0 100

1.0

R

0 0 100

1.0

R

0 0 100

0

0

0 0 100

1.2

R

0 0 100

0

0

0 0 100

0.3

S

0 0 100

# Plant notes

White umbelliferum

Water hemlock

120 100 100

c. 100

100 100 100

Mandula

100 100 100

Scutellaria

100

100 100 100

100

100

Rosa palustris

unc. 100

100 100 100

Sambucus racemosa

P. 100 100 100

S. 100 100 100

R. 100 100 100

M. 100 100 100

M. 100 100 100

100 100 100

100 100 100

100 100 100



plus a weird plantation-like thing

Time	Location	Species	Count
0.8	S	C	M 3
0	O	C	S 3
0.5	F 6	C	P 3
0.6	F 6	1 B 3	P 3
0.6	G	C	D 3
0.4	G	C	D 3
0.5	G	C	D 3
0.2	S	C	D 3
0.2	F 6 (6)	C	D 3
0.4	F	C	M 3
0.5	C (higher)	C	M 3
0.5	P	1 W/L	S 3
1.2	F S	C	S 3
1.6	P	1 1/2 B	S 3

$\frac{S_1}{S_2} \approx \frac{S_1}{S_2}$

0.3	F	0.2	m	3?
0.5	f	0	m	3
0.3	F-(G <sub>1</sub> )	0	m	3
0.5	G <sub>1</sub>	0	m	0
0.1	G (G <sub>1</sub> )	0	<del>0</del>	4
0.6	f	0	D	4
0.4	F-G	0	m	4
0.6	F (F <sub>1</sub> )	0	m	4
0.4	G	0	m	4
0.1	G (G <sub>1</sub> )	0	m	4
0.4	G	0	s	4
0.5	S	0	s	4
0.6	G?	0	s	4
0.3	f	0	m	4
0.5	f	0	D	4
0.1	F-G <sup>2</sup>	0	D	4
0.3	F-G <sub>1</sub>	0	m	4
0.4	G = J	0	s	4
0.5	f	0	s	4
0.0	f	0	1/2	4

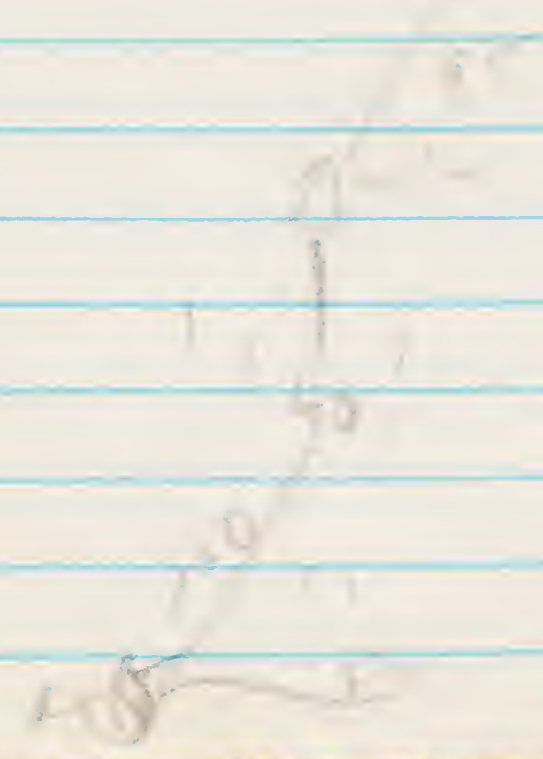
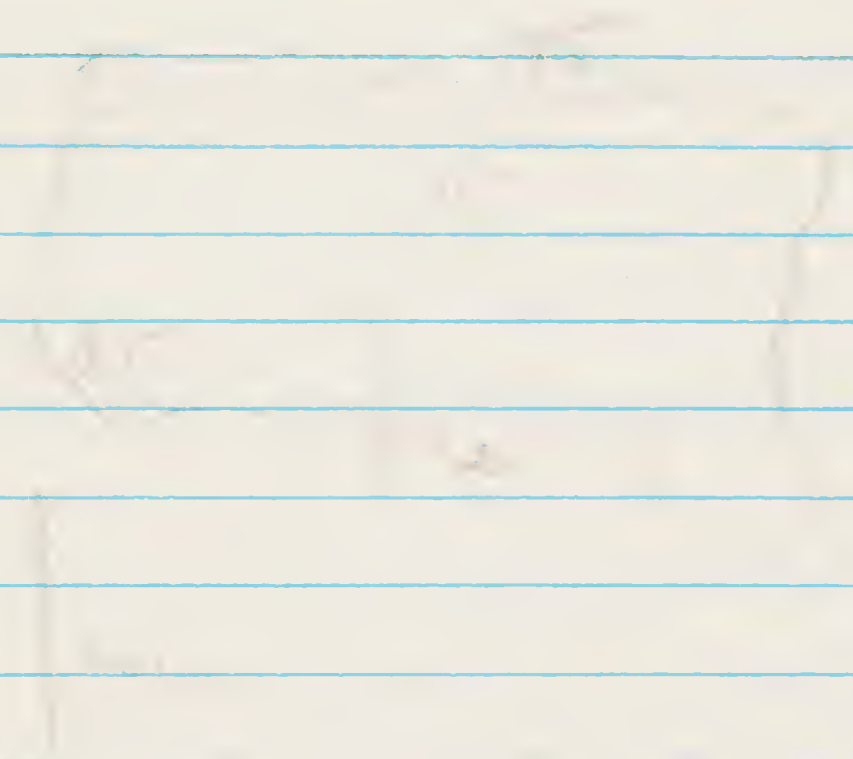
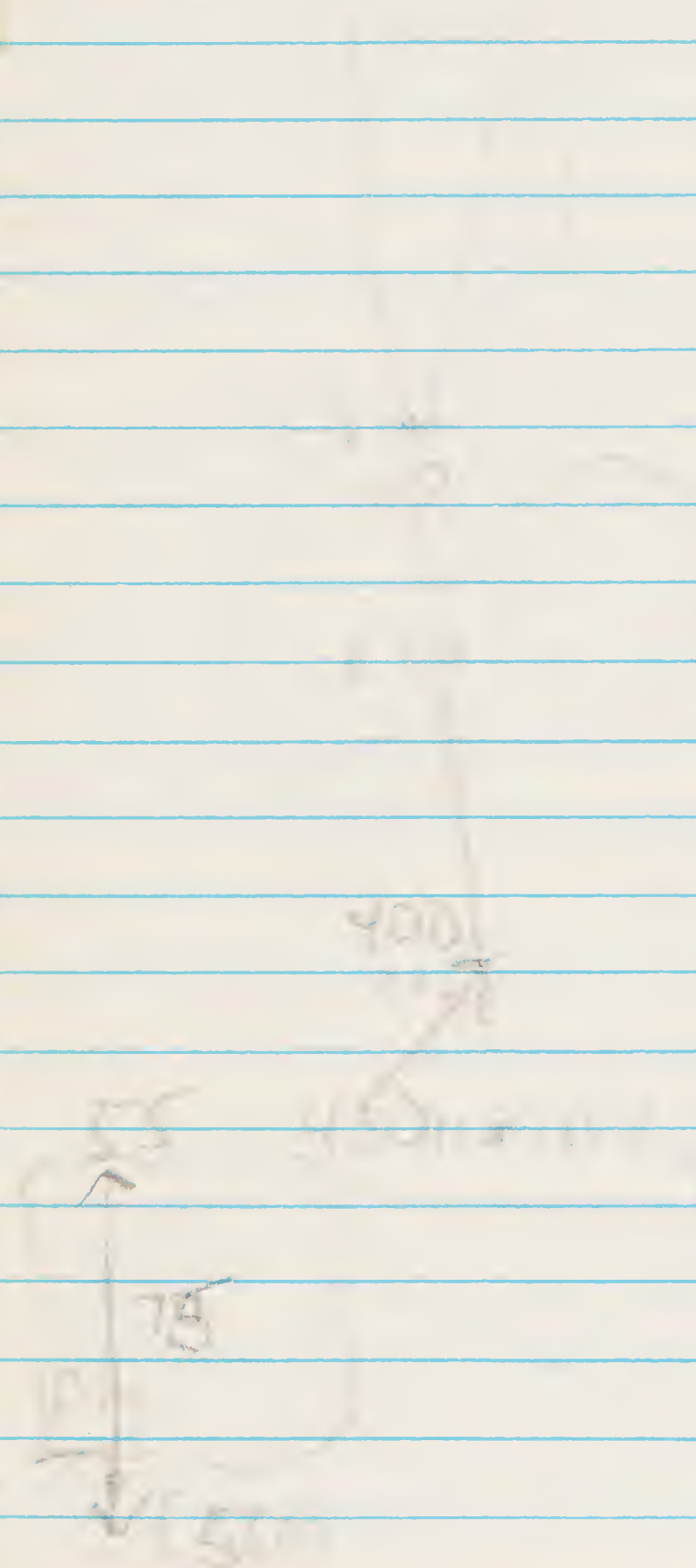
(continued) at bottom of page 65





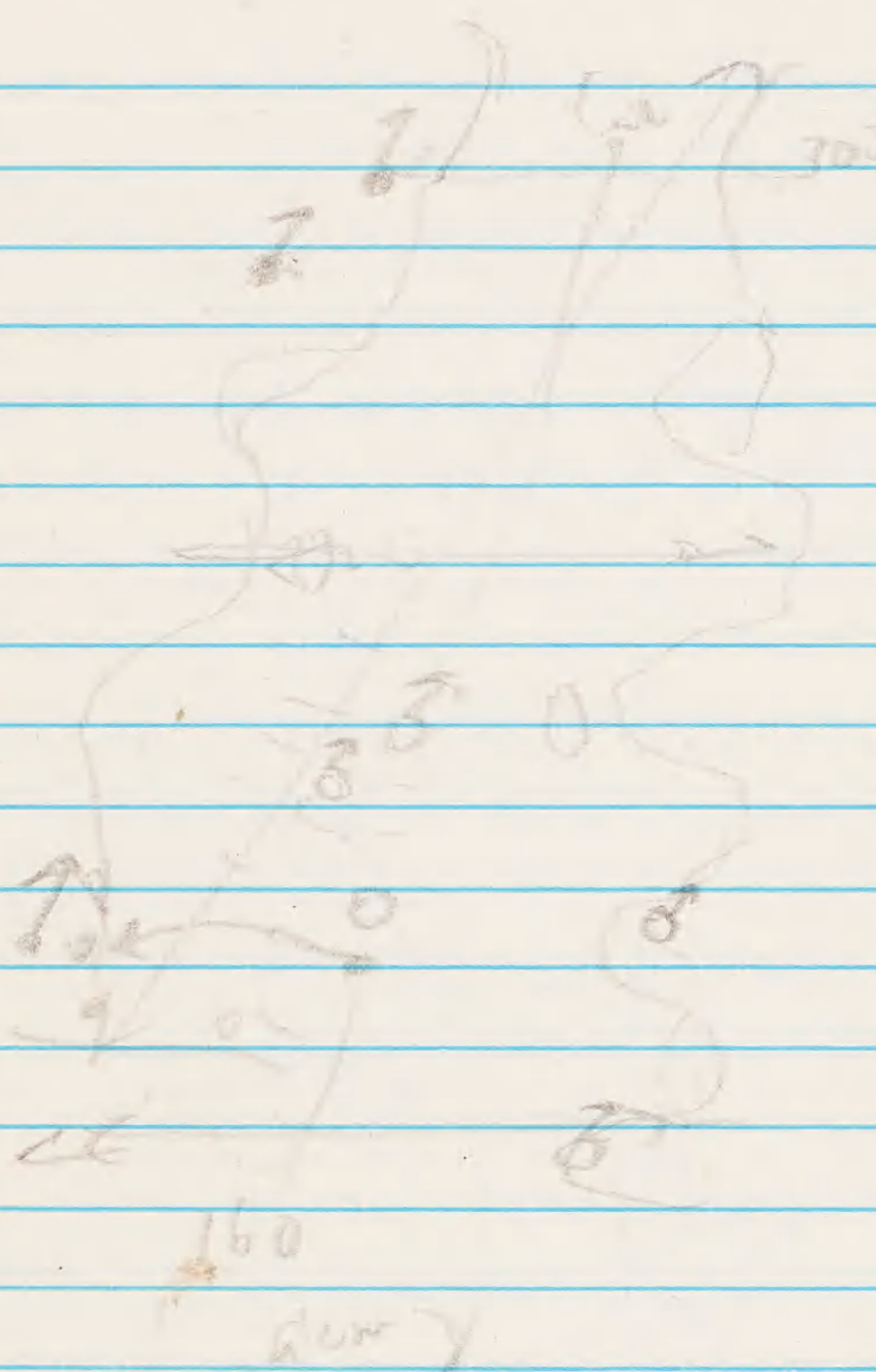


Page 1





M... ..



0.6	Subp...	0	AD	E
"	"	"	m	E
"	"	P	m	E
Row 0.0	Sup...	0	AD	E
"	"	"	"	"
"	"	"	"	"
0	"	"	"	"
1.0	Subp...	"	"	"

Thru to do machine

insect sampling

Soil temp

Finish netting adults

July	do	do	do	do
1.5	Sup...	0	AD	E
"	"	"	"	"
0.7	F	0	AD	E
0.6	Sup...	"	AD	E
1.5	"	"	AD	E
0.7	Sup...	0	AD	E
0.8	Sup...	"	AD	E
0	"	"	AD	E

July Insects - lost 504 - 5 small, 3 large, 3 thin

# Cor, 2 5 x 5 - 10 on floor 1 Turn Kated

Cor, 4 1st, 1b, spec 2 Turn Kated 3-4 members others

Swing 3 3 flies 1 Turn Kated 1 Turn Kated



1. 25 to 40

Top of the ...  
Soil ...

1. ... ..

... ..

... ..

... ..

2. ... ..

... ..

Re 3. ... ..

4. ... ..

... ..

... ..

5. ... ..

... ..

... ..



Cell 10/10/10

10/10

20/10

16/10

42

6/10

Colombia

Net

Abundant territory = 100%

RW/P

RW/P

RW/B

RW-B X

~~RW-B~~

M1 Net 6 m, pro

M2 Net

R/R

Esco X

M3 Net, Sweep

Sweep

Sarg

R/B X

B/O X

B/P

Bl-w/B-w

dg/B

wdg/B

R-O/P

B-W/P

010-6/10

W-O/W-B X

dsr/B

1/10/10 ✓

dB/g-r

2/10/10 X

4-R/W X

B/O-W X

B/O X

P/OB X

2/10/10 X

2/10/10 X

2/10/10 X

Chlor. Vrd

X = bird seen only at the birding

Jing R-R

O-W/O-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

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6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

6-W/6-W X

SWAMP

1 O-W

2 O-W

3 O-W

4 O-W

5 O-W

6 O-W

7 O-W

8 O-W

9 O-W

10 O-W

11 O-W

12 O-W

13 O-W

14 O-W

15 O-W

16 O-W

17 O-W

18 O-W

19 O-W

20 O-W



